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On the butterflies of Bahçesaray district (Van Province, East Turkey)

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Abstract: On the butterflies of Bahçesaray district (Van Province, East Turkey). *Priamus* 15 (4): 166-223, 112 figs, 17 maps.

The present paper deals with the butterfly fauna of Bahçesaray (Van Province, East Turkey). Totally 134 butterfly species are listed synonymously. Original references to each species are given. Range of the species are mentioned with codes. Various remarks are also added to some species. Among the recorded species, 77 were photographed by the first author in nature. For 17 species, distributional maps were prepared. Faunistically, one species, *Brenthis daphne* is reported here as new for the fauna of Van Province. All the recorded species are new to Bahçesaray fauna. The identity of *Muschampia nomas* is also discussed.

Key words: Lepidoptera, Papilionidae, Pieridae, Libytheidae, Argynnidae, Satyridae, Lycaenidae, Hesperiidae, Turkey, Van, Bahçesaray, fauna, ecology, bionomy, genitalia, map.



Fig. – 1. Upper slopes of Krapet Pass 3000m (Bahçesaray, Van Province, East Turkey), at 6:24 a.m., on 17 7 2017, M. Kemal (Cesa)

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The authors carried out entomological field studies especially in the whole year of 2016, and also in July 2017 to the district Bahçesaray, high mountainous region located in the southern part of Van Lake (East Turkey)² (**Fig.1**). The faunistical results on the Lepidoptera of Bahçesaray were published by the authors at irregular intervals (Kemal & Koçak, 2016a-c, 2017a-c; Kemal et al., 2016, Kemal, Koçak & Ecer, 2016). As a result of these publications, 529 lepidopteran taxa were evaluated so far. In the present paper, an informative list for 134 butterfly species recorded in Bahçesaray district by the authors are given. In this way, the total number of the lepidopteran species in the district reached 663.

Two recent comprehensive publications by the authors on the butterflies of this geography are worth mentioning here (Kemal & Koçak, 2011; Koçak & Kemal, 2012). The first one is an article in the Lepidopterology, dealing with the checklist of the butterflies of the East Mediterranean countries, Turkey, Cyprus, Syria, Lebanon, Israel, Jordan, and Iraq. Totally 448 species in 9 families are listed synonymically, numerous original images taken in the nature, arranged in 42 plates. In the second one, 190 species of butterflies of 7 families are recorded from İğdır Province (North East Turkey). Among them, 164 species are illustrated by the second author from their living places.

In the present paper, totally 134 butterfly species are listed synonymously. Original references to each species is given. Range of the species are mentioned with codes (Koçak & Kemal, 2017). Various remarks are also added to some species. Among the recorded 134 species, 77 species were photographed by the first author in Bahçesaray, and submitted here. For 17 species, distributional maps were prepared for this publication. Faunistically, one species, *Brenthis daphne* is reported here as new for the fauna of Van Province (Koçak & Kemal, 2009). All the recorded species are new to Bahçesaray fauna. The identity of *Muschampia nomas* is discussed. All the species were identified by the authors and the material preserved in the Collection of the Cesa.

List of the species

Hesperioidae

Hesperiidae

530. *Carcharodus (Lavatheria) lavatherae* (Esper,[1783]) (Figs.2, 10) (Map 1)

Synonym(s): *lavatherae* Esper,[1783]; *australior* Verity,1919; *pyrenaicus* Picard,1948. Original Reference: *Papilio lavatherae* Esper,[1783], Die Schmett. 1(2): 148-149, pl.82 fig.4. Syntypes: Frankreich; Schweiz. Range (in code): AL AT BG BY CH DE DZ ES Mu Mu18 FR GR HU IT MA RO RU SK Sm So Sr TR IR Ab UA VI YU Mt Ko MK SS HV B-H Ur Cc TN Ges Sbd Lbs 01 03 04 05 06 07 08 12 13 14 17 18 19 21 23 24 25 29 30 32 33 36 37 38 39 40 41 42 44 46 49 50 51 56 58 60 62 65 66 68 70 72 73 74 75 76 78 04D 04Db 05A 06R 06Rd 06Z 13C 13Cd 13F 13G 13Gv 23D 23Dc 23I 23Ia 23Ib 24E 24Ea 25F 25Fa 25Fc 30B 30Be 30Bc 30D 30Df 30Dt 36D 36Dc 36F 36Fb 49E 49Ea 58G 58Gi 65A 65Ai 65At 65At1 65D 65Dc 65Dc 65Do 65F 65Fb 65Fg 65Fz 66A 72E 72Ej 75F 76C 76D 76Dc 78D 78Da

Observed in the district during sipping mineral water on the wet ground.

531. *Carcharodus (Reverdinus) orientalis* Reverdin,1913 (Map 2)

Synonym(s): *orientalis* Reverdin,1913; *centralanatolica* Pfeiffer,1927; *#aestatis* Graves,1928; *aestatis* Verity,1928; *postorientalis* Verity,1928; *maccabaeus* Hemming,1932. Original Reference: *Carcharodus orientalis* Reverdin,1913, Bull. Soc. lépid. Geneve 2 (4): 232, Pl.21 fig.14; Pl.22 figs.1,8. Syntypes: Greece: Peloponnes (MHNG). Range (in code): IL He Pa LB AL BG BY GR JO IQ IR Ab Qba Kh GlS MK RU TR Cc UA YU HV Mt 01 03 05 06 07 08 10 13 14 16 17 18 19 20 21 23 24 25 27 29 30 31 32 33 34 35 36 38 39 42 43 44 46 47 48 49 50 51 56 58 60 62 63 65 66 69 70 72 73 74 76 01D 01H 05A 06B 06G 06K 06N 06P 06R 06Rd 06V 06Z 13G 13Gs 13Gw 18F 21N 21Nb 25F 25Fa 25Fc 27B 27C 27Ch 27D 27Db 30B 30Bc2 30Bx 30D 30Dt 31E 31L 31La 31K 31Ka 33K 35T

² East Turkey is a geographical part of the Turkish Republic. The boundaries of Turkey with Georgia, Armenia, Iran, Iraq, and Syria have been established by several treaties signed. For the boundaries Georgia, Armenia, and Azerbaijan, the Treaty of Moscow signed on 16 March 1921. The latter treaty was further ratified as the Treaty of Kars, signed by the Grand National Assembly of Turkey, and three republics of Armenia, Georgia, and Azerbaijan. The present border between Turkey and Iran was an accord signed between Safavid Empire, and the Ottoman Empire on May 17, 1639 (Treaty of Zuhab). The official border with Iraq was established by the Treaty of Ankara, signed by United Kingdom, entered into force on June 7, 1926. Similarly, the official border with Syria was established by the Treaty of Ankara, signed by France (ex Wikipedia).

36D 36Dc 36F 36Fb 44E 44L 44Lc 46F 47B 47F 49E 49Ea 56F 58G 58Gi 63D 63E 65A 65Am 65Am3 65D 65Dç 65Df
65Do 65Dp 65F 65Fc 65Fg 65F1 65Fz 65G 65Gm 65K 65Kc 65Kö 65Ku 65Kw 65Kz 65Kğ 65L 65Le 66A 72E 72Eg 76C
Like the preceding species.

532. *Carcharodus (s.str.) alceae* (Esper,[1780]) (Fig.3) (Map 3)

Synonym(s): *alceae* Esper,[1780]; *malvae* Hufnagel,1766 nec Linn.,1758; *malvarum* Hoffmannsegg,1804; *magnaaustralis* Verity,1924; *corsicus* Picard,1948. Original Reference: *Papilio alceae* Esper,[1780], Die Schmett. 1(2): 4, pl.51, fig.1. Type(s): Süddeutschland: Erlangen. Range (in code): AF AL AM Ao AT AZ Len Ba BE BG BY Ch Ci CN Co Cr CZ DE ES FR Gg GG GR Rd Gs Hd Hp HU IN IQ IR IT KG Kr Ku LB Ld LU MA Mre Haz Mus NL Pag PK PL PT RO RU Sa Si SK Sm Sml So Sr TM TN TR UA Üi Uk Up VI YE YU Mt Ko MK SS At Mn Sp Tk Aa Tm Sau Tar DsA Ax Tls Ng Hr Kab T-S Mu CH HV B-H DZ Bn CY IL Pa Hf Cc Arr Ab Ak Shf Glz Gor Kh Nar 01 03 04 05 06 07 08 09 10 12 13 15 16 17 20 21 23 24 25 26 27 29 30 31 32 33 34 35 36 38 39 41 42 43 44 45 46 47 48 49 50 51 53 56 58 60 62 63 65 66 67 70 71 72 73 74 75 76 78 79 80 01A 01H 01K 01F 04D 04Db 05A 06B 06G 06K 06R 06D 06V 06Z 12A 12Ai 13F 13G 13Go 13Gv 13Gw 21L 21Le 21Lf 21N 21Nb 21O 23D 23Da 23I 23Ja 25F 25Fa 27C 27Cb 27D 27Dd 27E 30A 30Aa 30B 30Bd 30Bc 30Bt1 30Bx 30Bh 30Bf 30Bj 30Bj1 30Bo 30Br 30D 30Da 30Df 30Dt 31A 31Aa 31F 31K 31Ka 31O 33A 33Al 33O 36D 36Db 36F 36Fb 39C 44L 44Lc 48A 48Aa 48Ak 48D 48F 49E 49Ea 49Ef 49F 49Fb 56F 63B 63Ba 63D 63E 65A 65Am 65Am1 65Am4 65B 65Bo 65Bx 65D 65Dc 65Dd 65Dda 65Df 65Dl 65Do 65Dp 65Dr 65Drb 65Dt 65Dw 65Dn 65E 65Ea 65Eb 65Ed 65F 65Fb 65Fd 65Fg 65Fu 65Fq 65F3 65F1 65Fz 65G 65Gb 65Gn 65K 65Kb 65Kc 65Kl 65Kö 65Ks 65L 65Le 65N 65Na 65Np 65Np4 65Nm 66A 72E 72Eb 73A 73Ad 73D 73Db 75E 76Bb 76Bf 76Bh 76D 76Da 76Df 78D 78Da 79B 80B 80Bc 80C 80G

Commoner in the district.

533. *Erynnis (Hesperopegasus) marloyi* (Boisduval,[1834]) (Fig.4) (Map 4)

Synonym(s): *marloyi* Boisduval,[1834]; *sericea* Freyer,1838; *rustan* Kollar,[1849]. Original Reference: *Thanaos marloyi* Boisduval,[1834], Icon. hist. Lépid. Europe 1: 241, pl.47 figs.6,7. Type $\hat{\circ}$: Greece (BMNH). Range (in code): AF AL BG GR IQ Rzw Shq IR Ab Qba Kp Fa Shr Kh LB MK RU TM TR Cc 01 03 04 05 06 07 08 09 12 13 16 17 18 21 23 24 25 27 28 29 30 31 32 33 34 35 36 38 40 42 44 46 48 50 56 58 60 62 65 66 70 71 72 73 76 01H 01K 05A 06B 06K 06N 06R 06V 06Z 13G 13Ga 13Gö 13Gğ 13Gs 13Gw 13Gz 21L 21Le 21N 21Nb 21O 23D 23Dc 23I 23Ib 25F 25Fa 30A 30Ae 30B 30Bd 30Bc 30Bx 30Bh 30Bj 30Bj1 30Bo 30Br 30D 30Da 30Df 30Dt 31A 31Aa 31B 35L 36D 36Dc 56F 65A 65Am 65Am4 65D 65Dc 65Dl 65Do 65Dq 65Dp 65Dr 65Drb 65Dw 65F 65Fb 65Fd 65Fp 65Fz 65K 65Kd 65Kğ 65L 65La 66A 72E 72Eg 73A 73Ad 73Ad2 73Aj

Rare in the district. Observed at hot, sunny places.

534. *Erynnis (s.str.) tages* (Linnaeus,1758) (Fig.5) (Map 5)

Synonym(s): *tages* Linnaeus,1758; *morio* Scopoli,1763; *geryon* Rottemburg,1775; *subclarus* Verity,1921. Original Reference: *Papilio tages* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 485. Type(s): Europa. Range (in code): At AL AT Ba BE BG BY CH Cr CZ DE DK EE ES An Mu Mui8 FR GB GR HU IE IQ IR Ab IT KG Kr LB LT LU LV MN NL NO PL PT RO RU Sb SE SK Sm So Sr TR UA VI YU Cw Dv Smt H-W Sur Ssx Ken Mt Ko MK SS HV B-H Mn Sau Tar CN Sz Üi Cc 01 03 05 06 07 08 11 12 13 14 16 17 18 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 44 45 46 49 50 51 52 54 55 56 58 62 63 65 66 67 69 70 71 73 75 76 78 01H 05A 06B 06C 06D 06G 06K 06N 06Ne 06P 06R 06V 06Z 12A 12Aa 13F 13G 13Gw 14F 21N 21Nb 23D 23Dc 23E 23M 25F 27C 27Cb 30A 30Aa 30B 30Bc 30Bx 30Bd 30Bh 30Bf 30Bj 30Bj1 30Bo 30Br 30C 30Ce 30D 30Df 30Dt 31A 31K 31Ka 31L 31La 33K 33D 39C 44L 44Lc 44O 44Oc 46F 46Fc 46Fd 49E 49Ea 49F 49Fb 56F 63D 65A 65Ai 65Am 65Am4 65At 65D 65Dc 65Dk 65Dl 65Do 65Dob 65Dq 65Dü 65Dn 65Dv 65Dt 66A 73A 73Ad 73Ad2 75E 75F 75Fd 78D 78Da

More commoner than the previous species, observed also at damp places.

535. *Hesperia comma* (Linnaeus,1758) (Fig.6) (Map 6)

Synonym(s): *comma* Linnaeus,1758; *virgula* Retzius,1783; *alpina* Bath,1896; *galliaemericidie* Verity,1928; *alpapennina* Verity,1928; *alpiumflava* Verity,1928; *macrocomma* Verity,1928; *superalpina* Verity,1928; *atralpina* Verity,1928. Original Reference: *Papilio comma* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 484. Type(s): Europa. Range (in code): AF AL KK At Kts AT Ba BE BG Bqu Btn BY B-H CH Ci CN CZ DE DK EE ES FI FR GB GR HU HV IN IT Ju Kbb Ku Ld Lho LT LU MK NL No NO PK PL PT RO RU SE Sha Si SK Sm So Sr Sz TR Ts T-S T-T SS UA Üi Up VI YU YU Sur Ssx Mt Ko MA DZ KG Ük Rk Pw Om Mn Sp Or Bs Afr Lkr Ouk Lbs Tgz Mu Bn Amd Kg Ur Sb Tt TJ Pm Al DsA KuA TrA Tls Ax Ket IQ LB Cc GG Smt Bjo Kak Lag US MX Arz Cf Col Id Mai Mci Mns Mon NDK NMx Ne Neb Nh Org SDk Ut Wc Ws Wy Ab 03 04 05 06 07 08 10 13 14 15 16 23 24 25 29 30 32 33 35 36 38 42 46 50 51 58 60 65 66 69 70 71 76 81 05A 06D 06H 06K 06Z 13A 13Ab 13Ac1 13Ac3 13Ax 13F 13G 13Gw 23D 23Dc 30B 30Ba 30Bf 30D 30Df 30Dfa 35S 35Sb 46F 58G 58Gg 58Gj 65A 65Ac 65Ab 65Ac2 65Am 65Am2 65B 65Bk 65Bx 65D 65Ge 65Gn 65Gp 65Gm 65F 65Fc 65Fe 65Ft 65Fq 65Fe 65Fs 65Fü 65Fz 65K 65Kc 65Kğ 65Kl 65Kö 65Kw 65N 65Nr2 65Nr4 65Nm 66P 66Pa 70C 70Cb 76C

Butterflies occur in late summer, uncommon.

536. *Muschampia nomas* (Lederer,1855) (Figs. 103-105)

Synonym(s): *nomas* Lederer,1855 Original Reference: *Hesperia nomas* Lederer,1855, Verh. zool.- bot. Ver. Wien 5: 193, Taf.1 fig.7. Syntypes: [Lebanon]: Beirut, am Hundfluße (ZMHB). Range (in code): LB Bei SY IQ Shq Slh TR IL He 01 03 05 06 07 12 13 21 23 27 31 32 33 38 42 44 46 47 49 50 51 58 60 62 63 65 70 72 73 05A 06B 06K 06R 06V 13F 13G 21O 23D 23Dc 23E 23M 27C 27Cb 31A 31Aa 31K 31M 46H 46Hc 49E 49Ea 49F 49Fd 65A 65Ai 65Am 65Am3 72E 72Eb 72Ei 72Ek 73D 73Df

The specific identity of *nomas* appears still uncertain. Externally, it may be distinguishable by especially whitish ground colour of underside hindwing from *tessellum*. There are also some important differences among the shapes of wing markings. These features can be more frequently seen at the southern populations in Turkey. However, intermediate forms are not rare. The species from Bahçesaray has been identified temporarily as *nomas*. Apparently, there are some differences (anellus, valve, etc.) from *tessellum*, collected from Kazıkoparan (İğdır Province, NE Turkey) in their male genitalia (**Figs. 100-102**). These differences may be important. Therefore, more investigations on this matter are planned.

The species is univoltine, and uncommon in the district.

537. *Muschampia poggei* (Lederer, 1858) (Figs.7, 106-108)

Synonym(s): *poggei* Lederer, 1858; *ioan* B.C.S. Warren, 1926 Original Reference: *Hesperia poggei* Lederer, 1858, Wien. ent. Monatschr. 2: 141. Syntypes ♂♀: Syrien: "auf den Bergen um Damask".

Range (in code): GG Cc IQ Slh IR Ab LB SY TR AM Nv AZ 01 07 12 13 21 23 24 25 27 30 33 42 44 46 47 49 56 58 62 63 65 70 72 73 13A 13Ae 13Ax 13F 13F7 13G 13Gv 23I 23Ib 24E 24Ea 27B 30B 30D 49E 49Ea 49Ed 56B 56F 65A 65Am 65Am3 65Bx 65D 65Dq 65Dp 65E 65Eb 65G 65Ge 65F 65Fg 65Fh 65Fj 65Fl 65Fz 65K 65Kc 65Kz 65Kg 65N 65Np2 65Np8 65Nm 72E 72Eb 72Eg 72Eh 72Ei 72Ej 73D 73Df 73Dg

GP2739♂. The genitalia was prepared from a male, collected at Upper Mukus valley 1850m (65Am3), on 24.6.2016, M. Kemal. For a comparison, see: Warren, B.C.S., 1926, *Trans. Ent. Soc. London* 74: pl. vii fig. 4 (a genitalic photograph, almost useless for identification of *poggei*).

The species is locally common in the district.

538. *Muschampia proteides* (F.Wagner, 1929)

Synonym(s): *proteides* F.Wagner, 1929; *lycaonius* F.Wagner, 1929; *sovietica* Sichel, 1964; *lycaonius* Benjamini & Avni, 2001 [misident.]; #*lycaonius* Benjamini & Avni, 2001 Original Reference: *Hesperia proto* ssp. *proteides* F.Wagner, 1929, Mitt. münchen. ent. Ges. Taf.2 fig.26 Type ♂: [Türkei]: Akschehir [15 Febr. 1929].

Range (in code): Cm IQ IR Ab JO KG Kr LB MK Pa RU Sr TR UA Uk KG Cc AM IL Pa Js Nab JO SY He LB Bei Zah Baa 01 03 05 06 07 08 13 14 15 20 21 24 25 27 32 33 38 42 43 44 46 48 49 51 56 58 60 65 70 73 76 05A 06B 06Bc 06D 06E 06H 06K 06N 06R 06V 06Z 13F 13G 27D 27Dd 33P 44F 44Fb 46F 48G 48Gb 49F 49Fd 50G 50Gd 56F 58G 58Ga 58Gg 58Gj 65A 65Au 65Am 65Am2 65D 65Dd 65F 65Fb 65Fc 65Fr 65Fp 65Fz 65G 65Gb 65K 65Kg 65Ku 70C 70Cb 70Cd 76C Prep. no: GP2716♂.

Various issues on this species, including bionomy were recently discussed (Kemal & Koçak, 2017d). Butterflies emerge in late summer.

539. *Ochloides venatus* (Bremer & Grey, [1852]) (Fig.11)

Synonym(s): *venatus* Bremer & Grey, [1852] Original Reference: *Hesperia venata* Bremer & Grey, 1852, [in] Motschulsky, Etüd. Ent. 1: 161. Type(s): China. Range (in code): IR By Th Lo Ak Ab AL AT Ba BG BL BY CH CN CZ DE DK EE ES FI FR GB GR HU IT Kr LT LU LV Mc Na NL NO PL PT RO RU SE Si SK Sm So Sr Sz Ti TR Ts T-T UA Ui VI Vv Yu Cw Dv Smt H-W Sur Ssx Ken Mt Ko B-H HV SS MK SY KK KG Or Uk Bs Tr Cb Kg Ty Kw Pw Om No At Mn T-S Am Amd Ao Kts Mu Sp Tk At Bn Aa Db Kuz Sli Sau Tar DsA Ket Tu TeA KuA TrA Tls Ax IQ LB Cc Sro 01 02 03 05 06 07 08 10 11 13 14 16 17 24 25 26 29 30 31 32 33 34 35 36 37 39 41 42 43 46 52 53 56 58 60 61 62 65 66 69 72 73 74 75 78 81 05A 06G 06R 06Rd 13F 13G 13Ga 14I 14Ib 30B 30Bc 30Bx 30Bf 30Bg 30D 30Da 31A 31Aa 36D 36Dc 39C 56F 65A 65Ai 65B 65Bk 65Bx 65D 65Dd 65Dda 65Do 65Dü 65Dn 65Dw 65G 65Ge 65K 65Kd 65Kg 65L 65La 66A 73C 73Cd 75E 75F 75Fd 78D 78Da

Rare in the district.

540. *Pyrgus armoricanus* (Oberthür, 1910) (Figs.109-111) (Map 7)

Synonym(s): *armoricanus* Oberthür, 1910; *petheri* Romei, 1927. Original Reference: *Syrichtus alveus* f.*armoricanus* Oberthür, 1910, Etüd. Lépid. comp. 4: 411, pl.57 figs.509-517. Syntypes: France: Environs de Rennes. Range (in code): AL AT Ba BE BG B-H BY CH Co Cr CZ DE DK ES Mu FR GR HU HV IT MK NL PL PT RO RU Sa SE Si SK SS TR Cc UA YU Mt Ko Ur Kp TM IR Ab Kh IQ MA Ifr DZ Agi 01 02 03 04 05 06 07 08 09 12 13 14 16 17 18 19 23 24 25 26 27 28 29 30 32 33 34 35 36 37 38 39 41 42 43 44 46 48 49 51 52 53 56 58 60 61 62 65 66 68 69 70 71 73 74 75 76 79 05A 06B 06G 06K 06R 06V 06Z 13F 13G 23I 23Ib 25F 25Fa 27C 27Cb 30B 30Bc 30Bx 30Bg 30D 30Df 36D 36Dc 36Dd 36F 36Fb 46F 49E 49Ea 49F 49Fd 51D 51De 56F 58G 58Gd 58Gi 65A 65Au 65As 65At 65Ati 65B 65Bn 65Bn1 65D 65Dc 65Df 65Dk 65F 65Fc 65Fr 65Fq 65Fz 65G 65Gb 65K 65Kg 65M 65Md 66A 75F 76C 76E 76Fa

Apparently common in the district. For the precise identification, genitalic preparation is sometimes needed. De Jong (1972) discussed the identity and distribution of the subspecies *persicus* with the nominate subspecies and central Anatolian populations called *prostanae* Pff. The species, occurring in Bahçesaray, can be attributed to the subsp. *persicus* Reverdin.

541. *Pyrgus melotis* (Duponchel,[1834]) (Fig.8)

Synonym(s): *melotis* Duponchel,[1834]; *hypoleucus* Lederer,1853; *jordana* Hemming,1932. Original Reference: *Hesperia melotis* Duponchel,[1834], [in] Godart,J.B., Hist. nat. Lépid. Pap. Fr. 1: 251, Pl. 42 figs.1,2. Type(s): Libanon (cf. Hesselbarth,1995: 224). Range (in code): GR IL Pa JO LB SY TR Cc IR Ab Elb Th Kdj 01 02 03 04 05 06 07 08 09 10 12 13 14 18 20 21 23 24 25 27 28 29 30 31 32 33 35 36 38 42 43 44 46 48 49 50 51 52 53 55 56 58 60 61 65 66 69 70 71 73 76 80 05A 06B 06C 06G 06O 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 13B 13Bg 13D 13Da 13F 13G 13Gö 13Gü 13Gw 13Gs 13Gü 21N 23I 23Lb 23M 25F 25Fa 27C 27Cb 30B 30D 31K 31Ka 31M 33K 36D 36Dc 36F 36Fb 44A 44Ab 44L 44Lc 46F 49E 49Ea 49F 49Fb 56F 56Fa 63D 65A 65Ao 65Ai 65An 65Am 65Am4 65Au 65At 65D 65Dc 65Dda 65Dl 65Dn 65Dr 65Drb 65E 65Ed 65F 65F1 65Fc 65Fh 65Fe 65F3 65Fj 65Fz 65K 65Kd 65Kg 65Kl 65N 65Np 65Nm 66A 76B 76Bf 76Bh 76D 76Da

Common in the district.

542. *Pyrgus serratulae* (Rambur,[1839]) (Fig.10)

Synonym(s): *serratulae* Rambur,[1839]; *caecus* Freyer,1846; *occidentalis* Lucas,1910 nec Skinn.,1906; *planorum* Verity,1925; *magnagallica* Verity,1931; *plurisignata* Silbernagel,1946; *arvernensis* Picard,1948. Original Reference: *Hesperia serratulae* Rambur,[1839], Faune ent. Andalousie 2 (4): 318, Pl.8, figs.9,m. Type(s): Andalousie (BMNH). Range (in code): AL AT Bn At Ba BG B-H BL BY CH CZ DE DK EE ES Mu FR GR HU HV Ir IT KG Kp LB LT LU LV MK PL PT Py RO RU SK So Sr SS TM TR UA Uk Vi YU Mt Ko Cc GG AM IR Ab Kh IQ Sau Tar Mn CN Ui 01 03 04 05 06 07 08 12 13 14 17 18 23 24 25 27 28 29 30 31 32 33 34 36 37 38 39 42 46 47 48 49 50 51 52 53 54 58 60 61 62 65 66 69 70 71 73 74 75 76 05A 06B 06K 06P 06R 06S 06V 06Z 13G 13Gv 23I 23Lb 25F 25Fa 25Fc 31M 31F 31Fb 33C 36D 36Dc 36F 36Fb 38H 38Hc 46F 47F 49E 49Ea 49F 49Fb 49Fd 58G 58Gi 65A 65Ai 65At 65Ati 65Am 65Am3 65B 65Bk 65Bn 65Bn1 65Bx 65D 65Dc 65Dd 65Dda 65Df 65F 65Fb 65Fc 65F1 65Fe 65Fm 65F3 65Fz 65G 65Ge 65K 65Kd 65Kg 65Kl 65N 65Nr4 65Nr6 65Nm 66A 75A 75Ac 75E 76C 76D 76Db

Uncommon in the district.

543. *Pyrgus sidae* (Esper,[1784]) (Fig.9)

Synonym(s): *sidae* Esper,[1784]. Original Reference: *Papilio sidae* Esper,[1784], Die Schmett. 1(2): 178, pl.90 fig.3. Syntypes: Russia: Wolga. Range (in code): AL Ba BG B-H BY ES FR GR HV IT Kp MK RO RU So Sr SS TM TR Arr Cc IR Ab Kh GG UA Vi YU Mt Ko KG Uk KK Na Ket Ax Ug Tls T-S 01 03 04 05 06 07 08 10 12 13 14 16 17 18 20 21 23 24 25 28 29 30 32 33 34 35 36 38 39 41 42 46 49 50 51 53 56 58 59 60 61 62 65 66 69 71 72 73 74 75 76 81 04D 04Db 05A 06B 06K 06G 06P 06R 06V 13C 13Cd 13D 13Da 13F 13G 13Ga 13Gv 14I 14lb 21N 21Nb 23I 23Lb 23M 25F 25Fa 25Fc 30A 30B 30Bc 30Bx 30D 30Dt 36D 36Db 36Dc 49E 49Ea 49F 49Fd 56F 65A 65Ai 65Au 65D 65Dc 65Df 65Dd 65Dm 65Dn 65F 65Fm 65Fe 65Fb 65F2 65Fz 65K 65Kg 65Kl 65L 65Le 65N 65Np 65Nm 66A 72E 72Ej 72Eh 72Ei 75E 75F 76C

Uncommon in the district.

544. *Spialia (Neospialia) orbifer* (Hübner,[1823])

Synonym(s): *orbifer* Hübner,[1823]; *tesselloides* Herrich-Schäffer,[1845]. Original Reference: *Papilio orbifer* Hübner,[1823], Samml. eur. Schmett. 1: pl.161 figs. 803-806. Syntypes: Europa. Range (in code): AF AL At Kts Ba BG BY CN GR HU HV JO IQ IR LB KG KK Kr MK RO RU Si SK Sm Sr SS TR AM UA Ui Vi YU Mt Ko Mn Sp Tk Aa Syr Tm Sau Mrk Tar TrA DsA Ax TeA Bl Ci Gg Kab Nwf Pag PK Sju Qu Urk Zi Shs Sng She Gor Mrw Man Nmg Br Smk Bsa Bei Aiz Zah Js Shq Dk Krd Shq Slh Km Amm Hal Dms Bld UA Cm Th T-S IL Pa Hf Rd Cc Ab Ak Msw 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 64 65 66 68 69 70 71 72 73 74 75 76 77 80 05A 06B 06C 06K 06G 06N 06P 06R 06D 06S 06V 06Z 12A 12Ab 13A 13Ae 13Af 13Ax 13C 13Cd 13E 13Ea 13F 13G 13Gd 13Gv 21L 21Le 21Lf 21N 21Nb 21O 23D 23Dc 23I 23La 23Lb 23E 23M 25F 25Fa 25Fc 27C 27Cb 27D 27Db 30A 30B 30D 30Dt 31F 31I 31K 31O 31L 31La 31A 31M 33K 33O 36D 36Dc 36F 36Fc 38H 38Hc 39C 44A 44Aa 44Ab 44E 44Ej 44L 44Lc 44O 44Oc 45L 45La 46F 48A 48Ak 48Ah 48F 49E 49Ea 49F 49Fd 56F 56F1 58G 58Ga 58Gd 58Gi 58Gj 62F 63D 63E 65A 65Ai 65Am 65Am3 65Am4 65At 65B 65Bk 65Bo 65Bx 65D 65Dc 65Dd 65Dda 65Df 65Dg 65Dk 65Do 65Dq 65Du 65Dv 65G 65Gn 65Gm 65Gz 65F 65Fb 65Fh 65Fg 65Fc 65Fe 65Fr 65Fp 65Fq 65F1 65Fj 65F3 65Fx 65Fz 65K 65Kc 65Kl 65Kö 65Kz 65Kg 65L 65Le 65N 65Np 65Np1 65Np3 65Np4 65Np7 65Nr2 65Nr4 65Nr6 65Nr7 65Nm 66A 72E 72Ec 72Ei 75E 76C

Common in the district.

545. *Thymelicus lineolus* (Ochsenheimer,1808) (Map 8)

Synonym(s): *lineolus* Ochsenheimer,1808; *virgula* Hübner,1813 nec Retz.,1783; *ludoviciae* Mabille,1883; *pallida* Tutt,1896; *clara* Tutt,1905; *hemmingi* Romei,1927; *melissus* Zerny,1932; *fornax* Hemming,1934. Original Reference: *Papilio lineola* Ochsenheimer,1808, Schmett. Eur. 1(2):230-231. Type(s): Germania. Range (in code): At Kts AF AL Ao AT Ax Ba BG B-H BL BY CH CN Co CZ DE DK EE ES FI FR GB GR HU HV IL IR IT JO KG KK LB LT LU LV MA MK NL NO Pa PL PT RO RU SE Si SK Sm So Sr SS TM TR T-S UA Ui Uk Vi YU Sur Ssx Ken Mt Ko DZ TN Or Bs Tt Ch Kg Ty Kt Rk Pw Ka Sp Mn No Tk Aa Slh Mu Aq Bn Tm Kuz Sli Sau Tar DsA Ax Tls T-S GG AZ Nv Ord Smt Bjo Cc IQ Mos US Cnt Col Dw Id Idp Iln Io Knt Mai Mch Mis Mns Mon Mrl Msc NCa NDk Neb Nh Nje Ny Oh Pns RDi Tnn Vi Vr WVi Wc Wy Ab Sro Jal Kh Ifr Lbs Afr Ges Lkr Ouk Dju Hr BlM 01 02 03 04 05 06 07 08 10 12 13 14 15 16 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 36 38 39 40 42 43 44 46 47 48 49 50 51 56 58 60 62 63 65 66 69 70 71 73 74 75 76 80 01H 01K 04D 04Db 05A 06B 06K 06R 06V 06Z 13A 13Ae 13Af 13Ag 13Ah 13Ax 13B 13Ba 13D 13Da 13E 13Ea 13G 21L 21Lf 21N 21Nb 23D 23Dc 23I 23Lb 24E 24Fa 25F 25Fa 25Fc 30A 30Aa 30B 30Bc 30Bx 30Bd 30Bh 30Bf 30Bj 30Bk 30Bx 30D 30Df 30Dfa 31Aa 33K 36D 36Dc 36F 36Fb 44A 44Ab 44L 46D 46Da 49E 49Ec 56A 56Ac 56B 56F 58R 58Rb 65A 65Ai 65Am 65Am2 65Am3 65Am4 65B 65Bk

65Bo 65Bx 65D 65Dç 65Dl 65Db 65Dg 65Dp 65Dq 65Dm 65Du 65E 65Eb 65Fb 65Fg 65Fh 65Fe 65Fj 65F2 65Fz 65G 65Ge 65K 65Ké 65Kd 65Kö 65Kğ 65N 65Np 65Np1 65Np7 65Nm 66A 73A 73C 73Ağ 73Cd 73Ce 75E 75F 75Fd 76C 76D 76Da 76Df 8oB 8oBc
Common in the district.

546. *Thymelicus novus* (Reverdin, 1916)

Synonym(s): *novus* Reverdin, 1916 Original Reference: *Adopea nova* Reverdin, 1916, Bull. Soc. lépid. genève 3 (3): 125, Pl.7 fig.1N. Syntypes ♂♂: [Turquie]: Amasya (MHNG). Range (in code): IQ IR TR 04 05 13 21 23 25 30 46 47 56 62 65 73 04I 05A 13C 13Cf 13F 21N 21Nb 23D 23Dc 23M 23Ma 25F 25Fa 30A 30Aa 30B 30Bx 30Bd 30Bh 30Be 30Bf 30Bg 30D 30Da 30Df 56E 56F 65A 65Ai 65B 65Bx 65D 65Dç 65Df 65Dq 65Dl 65Dlb 65Dm 65Dw 65G 65Ge 65K 65Kz 65Kğ 65L 65Le 73A 73Ağ 73C 73D 73Df 73H
Common in the district, sympatric with the preceding species.

547. *Thymelicus sylvestris* (Poda, 1761)

(Fig.12)

Synonym(s): *sylvestris* Poda, 1761; *flava* Brünnich, 1763; *linea* Müller, 1764; *thaumas* Hufnagel, 1766; *divaricatus* Fourcroy, 1785; *venula* Hübner, [1813]; *obscura* Verity, 1905 Original Reference: *Papilio sylvestris* Poda, 1761, Insecta Musei Graecensis: 79. Type(s): [Austria]: Graz. Range (in code): AL AT Ba BE BG BY CH CZ DE DK EE ES Mu FR GB GR HU IT JO Kr LB LT LU LV MK NL PL PT RO RU Si SK Sm So Sr TR UA VI YU Cw Dv Smt H-W Sur Ssx Ken MA DZ IR Ab Kh Gls Cc GG AZ AM SY IQ Slh Mnf Ur Or Bs 01 02 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 49 50 51 56 58 60 61 62 63 64 65 66 67 69 70 71 72 73 74 75 76 78 81 04D 04Db 05A 06A 06B 06C 06D 06G 06K 06N 06P 06R 06Rd 06V 06Z 13A 13Aç 13Ax 13B 13Ba 13E 13Ea 13F 13G 13Ga 13Gv 13Gw 21N 21Nb 21O 23I 23Ib 25F 25Fa 25Fb 25Fc 27C 27Cb 30A 30Aa 30B 30Ba 30Bc 30Bx 30Bd 30Bh 30Be 30Bf 30Br 30D 30Dt 31A 31Aa 31M 33K 33O 36D 36Dc 36F 36Fb 44L 44Lc 45L 45La 46F 48A 48Ak 48A 48D 49E 49Ea 49Ef 56A 56Ac 56B 56Ba 56F 58C 58G 58Ga 58Gi 58Gj 63E 65A 65Ai 65Am 65Am2 65Am3 65Am4 65B 65Bk 65Bo 65Bx 65D 65Dc 65Df 65Dg 65Dk 65Dl 65Dm 65Dp 65Du 65F 65Fb 65Fj 65Fq 65F2 65Fm 65Fe 65Fg 65G 65Ge 65K 65Kc 65Kd 65Kğ 65Kl 65Kö 65Kü 65L 65La 65Le 65N 65Np 65Np7 65Np8 65Nm 66A 73A 73C 73Ağ 73Ac 73Cd 73D 73Df 75E 76C 76D 76Db 78D 78Da
Common in the district, sympatric with the preceding species.

Papilionoidea

Papilionidae

548. *Archon apollinaris* (Staudinger, [1892])

(Figs.13, 14)

Synonym(s): *apollinaris* Staudinger, [1892]; *pallidior* Spuler, 1892; *#mardina* Stichel, 1907 Original Reference: *Doritis apollinus* var. *apollinaris* Staudinger, [1892], Dt. ent. Z., Iris 4: 225. Syntypes: [Türkei: Erzincan Prov.]: nordöstlichen Kleinasiyen: Goman Otti, 1500m., lectotype designated by Wagener (1995). Range (in code): Dk IQ Mos IR Lo Km TR 13 21 23 24 30 47 49 56 62 65 73 13F 13F33 13F35 21L 21Le 21K 21N 21Nb 23E 30A 47C 57D 47Db 49E 49Ec 49Ef 49F 56F 56Fa 56Fb 56Fg 56G 62G 65A 65Am 65Am1 65Am3 65D 65Dh 65Dk 65Dn 65Dp 65Dr 65Drb 65F 65Fi 65Ff 65Fg 65Fy 65Fz 65K 65Ka 65Kb 65Kd 65Kğ 65Nc 65Nç 65Kl 65L 65Le 65N 65Nb 65Nk 65No 65Np 65Nm 73A 73Ae 73Af 73Ak 73D 73Da 73Db 73F
This species as full-grown caterpillar was observed by the authors on the food-plant *Aristolochia bottae*, at Upper Mukus valley 1840m on 24.6.2016. See also recent paper of the authors' on *Archon apollinaris* Stgr. (Kemal & Koçak, 2013).

549. *Iphiclides podalirius* (Linnaeus, 1758)

(Map 9)

Synonym(s): *podalirius* Linnaeus, 1758; *sinon* Poda, 1761; *flammeus* Fourcroy, 1785; *brassicae* Fabricius, 1807; *inalpinus* Verity, 1911; *valesiaca* Verity, 1911; *zanclaeides* Verity, 1911; *pseudopersica* Rocci, 1926. Original Reference: *Papilio podalirius* Linnaeus, 1758, Syst. Nat. (Ed.10) 1: 463, nota. Syntypes: Europae austr. & Africæ. Lectotype: Italy, Toscany (ICZN, Op.263). Range (in code): AL Ao At AT Ba BE BG B-H BY CH CN Co Cr CZ DE Dj DK DsA EE ES Mu FI FR GR HU HV Ii IR Kb Ket KG Kp Kr Kt Ku Kun LT LU LV MK Mrk NL PL PT Pw Rd RO RU Sa Sau Sem Si SK Sm So Sp Sr Srm SS SW Tar Teb Ti Tk Tlk TM TR TrA T-S UA Ui Uk VI YU Rte Vrn Sjv Trb IL AM AZ GG LB Beq Bei SY He Mst Sof Rg Skp Bgz Slv Ppp Mt Ko Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Mui8 Nrr Ore Pv Ple Lug Rio Seg Sma Sor Svl San Ter Tol Trg Val Vcl Zg Zm Agi Abe Lbs Saia Blid Btna Ktr Cst Phv Sbd Orn Dzc Ahr Hmk Hrh Dzc Dja Clo 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 49 50 51 52 54 56 58 59 60 62 64 65 66 67 68 69 70 71 73 75 76 77 78 81 04D 04Db 05A 06A 06B 06F 06G 06K 06N 06P 06R 06Rd 06V 06Z 07A 07Ac 09K 09Ka 13C 13Cd 13F 13F35 13G 13Gü 13Gy 13Gw 14I 14Ia 21N 23D 23Da 23I 23Ib 23M 24E 24Ea 25F 25Fa 27C 30A 30B 30Bc2 30Bx 30Br 30D 30Dt 31A 31Aa 31M 31F 31Fb 31L 31La 33K 33Kd 36F 36Fb 39C 40D 43G 44E 44F 44Fb 44L 44O 45L 45La 48A 48Aa 48D 48F 49E 49F 49Fe 56F 56Fb 56Fe 56Fj 56Fy 58G 58Gi 65A 65Ai 65D 65Dc 65Df 65Dg 65Dda 65Dj 65Di 65Dk 65Do 65Dr 65Drb 65Drc 65Dv 65F 65Fd 65Fq 65F3 65Fz 65K 65Kğ 66A 73A 73Ad 73Ad2 73Ak 75F 76B 76Bb 78D 78Da
Uncommon in the district, bivoltine.

550. *Papilio (s.str.) machaon* Linnaeus, 1758 (Figs. 15, 16)

Synonym(s): *machaon* Linnaeus, 1758; *reginae* Retzius, 1783; *umbellatarum* Fabricius, 1807; *aurantiaca* Speyer, 1858. Original Reference: *Papilio machaon* Linnaeus, 1758, Syst. Nat. (Ed 10): 462. Type(s): Europe. Range (in code): AF AL AM Ao At AT BE BH B-H BY Ch CH CN Co Cr CY CZ DE DK DZ EE ES Mu FI FR GB GG GR HV Ii IN IQ IR Ir IT KG Kmt Kp Kr Krl Ku KW LB LT LU LV MA MD MK MN MT NL NO OM PK PL PT QA Rd RU Sa SA SE Sh Si SK Sm So Sr SS SY TM TR UA U1 Uk US UZ VI Ya Ass BG BT Chb Hkk JP Kis Kr Mc MM NP Pja Shn SI Teb Ti Vv Yu Sjv Trb Mst Slv Rg Rte Mt Ko JO Kts Tm KK KP KR Um Bn Cho Ax Dj DsA Ii Ket KuA Sau Sem Tar TeA Tk TrA T-S Ab Ak Elb Th Ss Ke Fa Ba Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ces CA Cd Agi Ng Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Lug Mdr Mlg Mu18 Nrr Ore Pv Ple Rio Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Bei Bmm YU RO HU AZ TJ Zj Als Yuk BCo Abt Ssk Mnt On Qb Qg US MX Arz Cf Col Id Kan Mch Mon Ndk NMx Ne Neb Org SDk Ut Ws Wy TW Hr Gn IL Pa Hf Shn Yu VN Ton Ass Cc Cp Haz Mre Ci Bt Skd Kh Khh Saia Ges Gf Abe Hrh Sfr Hmk BLM 01 02 03 05 06 07 08 09 10 11 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 47 48 50 51 56 58 59 60 62 63 65 66 68 69 70 71 73 74 75 76 77 78 80 05A 06B 06C 06K 06N 06R 06Rd 06S 06V 06Z 07B 07Bb 13A 13Ab 13Ac 13Ax 13B 13Bb 13G 13Gk 13Gç 13Gv 13Gw 18F 23I 23la 24E 24Ea 27C 30B 30Bb 30Bc2 30Bx 30Br 30D 30Df 30Dh 30Dt 31A 31Aa 31F 31K 31Ka 31M 33A 33K 39C 43G 44L 44Lc 46F 46Fc 48A 48Aa 48Ak 48D 48F 48L 56F 56Fs 63D 63E 65A 65Am 65Am2 65Aç 65B 65Bk 65Bx 65D 65Dc 65Dè 65Dk 65Do 65Drd 65Dw 65G 65Gb 65Ge 65Gm 65Gs 65F 65Fc 65Fe 65Fs 65Fü 65Fw 65Fz 65K 65Kç 65Kr 65L 65Le 65N 65Nç 65Np 65Nm 66A 73A 73Ab 73C 73Cd 75F 75Fc 76B 76Bb 76D 76Da 76Dd 76Dg 78D 78Da 80B 80Bc 80E 80Ea

Uncommon in the district, bivoltine.

551. *Parnassius (Driopa) mnemosyne* (Linnaeus, 1758) (Fig. 17)

Synonym(s): *mnemosyne* Linnaeus, 1758. Original Reference: *Papilio mnemosyne* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 465. Type(s): Finlandia. Range (in code): AF AL Cc AM AT Ba BG B-H BY CH CZ DE DK EE ES FI FR GG GR HU HV IR IQ IL IT KG KK Kr LB LT LV MK NO PL RO RU SE Si SK Sm So Sr SS TJ TM TR UA Uk UZ VI YU Mt Ko Mkl Trb Dur Sof Rg Rte Slv Zag Skp Beo SY Aa Ax Dj DsA Ik Ikc Ket T-S KuA Sem T-A Tk Tu TrA Ssa Tl CN Ui Brk Fa Ab Ak Gh Gor Ara Lo Elb Mz Eri Alg AZ Nv Dz Teb Kc Ist Kh 01 03 05 06 07 08 12 13 14 16 18 24 25 26 27 29 30 31 32 33 35 36 37 39 42 46 48 49 51 52 53 58 60 61 62 65 66 67 69 73 74 76 78 80 01K 05A 06R 07A 07D 07Db 12A 12Ab 13E 13Ea 13F 13G 13Ga 13Gö 13Gç 13Gv 13Gü 13Gw 14I 14Ib 25F 25Fc 30B 30Bb 30Bc3 30Bx 30Bj 30Bk 30Bl 30Bp 30D 30Da 30Df 30Dh 30Dt 31F 31Fb 31M 33K 46F 46Fc 46Fg 49E 49Fa 49F 49Fc 56D 56Dg 56F 56Fc 56Fı 62G 65A 65Ai 65Ap 65As 65Aç 65B 65Bk 65Bx 65D 65Dç 65Dè 65Dk 65Dl 65Dlc 65Dk 65Dn 65Dm 65Dq 65Dü 65Dn 65Dt 65F 65Fb 65Fc 65Fç 65Fp 65Fe 65Fm 65Fw 65Fz 65G 65Ge 65K 65Kb 65Kl 65Kö 66A 73A 73Ac 73Ae 73Ag 80B 80Bc Uncommon in the district, univoltine.

552. *Zerynthia (Allancastria) deyrollei* (Oberthür, 1869) (Figs. 18-20)

Synonym(s): *deyrollei* Oberthür, 1869; *eisneri* Bernardi, 1970; *lycaoniae* Eisner & Wagener, 1974; #*flavomaculata* Verity, 1905; #*ochracea* Verity, 1905; #*obscurior* Verity, 1905; #*subflava* Schultz, 1908; #*deflexa* Schultz, 1908; #*charis* Schultz, 1908; #*separata* Sheljuzhko, 1927. Original Reference: *Thais deyrollei* Oberthür, 1869, Pet. Nouv. Ent. (2):7. Syntypes: [Turquie]: Alpes-Pontiques [Gümüşhane]. Range (in code): He IL Js Pa IQ Ssa Mos Bgd Slh Tkr IR Ab Oru Jal Kd Km JO LB Bsa Baa Aiz Zah Bmd SY Dms TR 01 02 03 05 06 07 12 13 14 15 18 19 21 23 24 25 26 27 28 29 30 31 32 33 37 38 42 43 44 46 47 49 50 51 56 58 60 62 63 64 65 66 68 70 71 73 80 01H 01K 03A 03D 03N 05A 06A 06B 06D 06G 06H 06K 06P 06R 06S 06V 06Z 07A 07D 07Ak 13B 13Ba 13F 13F35 13G 13Ga 19C 19D 21L 21Le 21Lf 21Ld 21N 21Nb 23I 23lb 23E 23M 25F 25Fa 27B 27C 27Cb 29A 29F 30D 30Df 30Dh 30Dt 30Dx 31A 31Aa 31B 31K 31Ka 31L 31La 32A 32C 32D 32E 32I 33E 37Y 38B 38C 38Cb 38L 42B 42D 42D 42Db 42Dc 42E 42I 42R 42X 42Xa 43K 44A 44Aa 44E 44Ej 44L 44Lb 44Lc 46F 46Fc 46K 47D 47E 47F 47H 49E 49Fa 49Fc 49Fü 49Fe 50G 50Ga 51D 51Da 51Dc 56F 56Fa 56Fı 56Fg 56Fh 56Fy 58C 58E 58G 58Ga 58Gi 60H 60Hb 62E 62F 62H 63D 63N 63Na 64F 65A 65Ai 65Am 65Am1 65Am3 65Ao 65At 65At1 65At2 65D 65Dk 65Dl 65Dm 65Dn 65Dr 65Drb 65Dp 65F 65Fe 65Fb 65Fd 65Ff 65Fg 65Fh 65Fi 65Fk 65Fq 65Fm 65K 65Ka 65Kd 65Kl 65Kö 65L 65Le 65N 65Ne 65Np 65Np2 65Nm 66A 66P 68B 70C 70D 73A 73Ab 73Ae 73Ak 73C 73Cd 73D 73Da 73Db 73E 73H 79B 79Ba 80A 80B 80Bc 80C Common in the district, univoltine, vernal. Appears later than *Archon apollinaris* Stgr. Both of them are Aristolochia feeders.

Pieridae**553. *Anthocharis cardamines* (Linnaeus, 1758)**

Synonym(s): *cardamines* Linnaeus, 1758; *hesperides* Newman, 1894; *britannica* Verity, 1908; *meridionalis* Verity, 1908 nec Lederer, 1852; *montivaga* Turati & Verity, 1911. Original Reference: *Papilio cardamines* Linnaeus, 1758, Syst. Nat. (Edn.10): 468. Type(s): [Europe]. Range (in code): Aa AL AM At AT Ba BE BG B-H Bs BY CH CN Co CY CZ DE Dj DK EE ES FI FR GB GR HU HV IE IL IQ IR IT Kb KG KK Kr Ku LB Le LT LU LV MK Mn NL NO Or PL PT Pw RO RU Sa SE Sem Si Sj SK Sm Sms So Sp Sr SS SY Teb Tk TM To TR TrA T-S Tt Ty UA Ui Uk VI YU Cw Dv Smt Ssa Ms Sr VI H-W Sur Ssx Ken Mt Ko Sof Ril Rg Rtc Mkl Trb Ti Kts Bn Ax DsA His Al Gh Pa Hf Gh Kas Shq Rzw Cc CY Ab 01 03 04 05 06 07 08 09 10 13 14 15 16 17 18 20 21 23 24 25 27 28 29 30 31 32 33 34 35 36 37 39 41 42 43 44 45 46 47 48 51 52 53 55 56 58 60 61 62 65 66 70 71 73 74 75 76 78 05A 06A 06B 06C 06G 06K 06N 06P 06R 06S 06V 06Z 13F 13G 21N 21Nb 23I 23lb 23E 27C 27Cb 30D 30Df 31A 31Aa 31K 31Ka 31L 31La 33A 33Ai 33K 33O 36F 36Fb 56D 56Db 56Dc 56F 56Fa 56Fb 56Fc 56Fç 56Fe 56Fg 56Fı 56F3 56G 65A 65Ag 65Bx 65D 65Dk 65Dl 65Dn 65Dm 65Dr 65Drb 65Dw 65F 65F1 65Fç 65F6 65Fd 65Fz 65G 65Ge 65K 65Kl 66A 73A 73Ab 73Ae 73Ak 73C 73Cd 73D 73Da 73Db 73E 73H 79B 79Ba 80A 80B 80Bc 75Fc 76C Common in the district, univoltine, vernal.

554. *Anthocharis damone* Boisduval, 1836

Synonym(s): *damone* Boisduval, 1836 Original Reference: *Anthocharis damone* Boisduval, 1836, Hist. nat. Ins. Sp. Gén. Lép. 1: 564. Type(s): [Italia]: Sicile. Range (in code): AL GR IT MK Si He GR IQ Ama Hjo Rzw Cc AM IR Ab Elb Th Es MK TR LB SY IL Pa Hf 01 04 05 07 08 10 13 21 23 24 25 27 29 30 31 32 33 34 35 36 42 43 44 46 48 49 51 56 65 69 70 73 76 01H 01K 04D 04Da 05A 07A 07Ad 07B 07Be 13Ba 13F 13F35 13G 13Gö 13Gğ 13Gw 13Gs 13Gü 21N 21Nb 23M 25C 25F 25N 25R 27B 27C 30B 30Be 30Bb 30Bk 30D 30Dt 31A 31L 31La 31M 36F 36Fb 44A 44E 44L 44Lb 44Lc 56D 56Db 56F 56Fb 56Fg 56G 58G 58Gi 65A 65Ai 65Am 65Am1 65At 65D 65Da 65Dc 65Dç 65Dg 65Dh 65Dk 65Dm 65Dr 65Drb 65F 65Fc 65Fe 65Fd 65Fz 65K 65Kg 65Kl 65M 65Md 69B 70C 70Ca 70Cb 73A 73Ab 73Ac 73C 73Cd 76C

Uncommon in the district, univoltine, vernal.

555. *Anthocharis grueneri* Herrich-Schäffer, [1851]

Synonym(s): *grueneri* Herrich-Schäffer, [1851]; #*diluta* Röber, 1907; *eros* Röber, 1907 Original Reference: *Anthocharis grueneri* Herrich-Schäffer, [1851], Syst. Bearb. Schmett. Eur. 6: 20; ibid. 1: pl.115, figs. 551-554 [uninominal]. Syntypes: ? Creta [Kleinasiens]. Range (in code): AM BG GR IL Js Pa IQ IR Ak Msw By Elb Th Lo LB MK SY TR Cc GG Bjo AZ Nv Ord 01 02 03 04 05 06 07 12 13 21 24 25 27 29 30 31 32 33 35 36 38 42 43 44 45 46 47 50 51 56 58 60 62 65 66 70 71 73 76 01H 01K 05A 06B 06G 06K 06R 06Rd 06V 13F 13F35 13G 13Gö 13Gğ 13Gw 13Gk 21N 21Nb 27B 27C 27Cb 30B 30Bb 30Bk 30D 30Dt 30Dt 31A 31L 31La 31M 36F 36Fb 44Aa 44E 44L 44Lb 44Lc 56D 56Db 56F 56Fb 56Fg 56G 58G 58Gi 65A 65Ai 65Am 65Am1 65At 65B 65Bk 65Bx 65D 65Dc 65Df 65Dk 65Dm 65Dr 65Drb 65F 65Fb 65Fp 65Fd 65Fe 65Fg 65Fh 65Fq 65Fz 65G 65Ge 65K 65Kb 65Kl 65Ks 66A 73C 73Cd 76C

Common in the district, univoltine, vernal.

556. *Aporia (s.str.) crataegi* (Linnaeus, 1758) (Figs. 21, 22)

Synonym(s): *crataegi* Linnaeus, 1758; *nigronervosus* Retzius, 1783; *minor* Verity, 1907; *basanius* Fruhstorfer, 1910; *crataegiaugusta* Verity, 1937. Original Reference: *Papilio crataegi* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 467. Type(s): [Europe]. Range (in code): Ae AF AL AM Ao At AT AZ Ba BE BG B-H Bs BY Cb CH CN CY CZ DE DK DZ EE ES FI FR GG Gn GR HV IL IQ IR JP Kg KG KK KP Kr Krl LB LT LU LV MA MK MN NL No NO Om Or PL Pm PT Rd RO RU Sb SE Si Sj SK Sm So Sr SS SY Sz Ti TJ TM To TR Ts Tt UA Ui Uk VI Tm T-S Aq Ax Bog Dg DsA DsA Ka Kt Ktm KuA Kw Mn Pp Pw Rk Sp Syr Tar TeA Tk TrA Ze Mt Ko Sjv Sof Ril Slv Rtc Rg Vrn Beo JO Ktn Bn Kp Kh Ab Ak Kz Fa Ke Lo Act Acl Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Cc SSa Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio Seg San Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Yz TN Kml Bc Mz Kh Blid Btma Tni Tis Sbd Orn Azr Hr BLM 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 53 54 55 56 58 60 61 62 63 65 66 69 70 71 72 73 74 75 76 78 80 81 04D 04Db 05A 06A 06B 06C 06G 06K 06P 06R 06Rd 06V 07A 07Ac 12A 12Ab 13A 13Ae 13Af 13Ax 13C 13Cd 13E 13Ea 13F 13G 13Ga 13Gb 13Gç 13Gv 13Gü 13Gy 13Gw 21N 21Nb 21O 23E 23I 23Ja 23Lb 25F 25Fa 25Fb 25Fc 27C 27Cb 29A 29Ae 30B 30Be 30Bx 30Bk 30Bo 30C 30Cd 30D 30Dt 31A 31E 31F 31Fb 31L 33A 36D 36Db 38H 38Hc 44A 44Aa 44E 44L 44Lc 47F 49E 49Ea 49F 49Fd 56F 56Fc 56Fn 65A 65Ai 65Am 65Am2 65D 65Dç 65Dd 65Dda 65Do 65Dn 65Dt 65Dn 65Dl 65Dlc 65Dq 65F 65Fb 65Fd 65Fh 65Fz 65K 65Kl 66A 72E 72Eb 72Eh 72Ei 73A 73Aç 73Aç 75F 75Fc 76C 78D 78Da

Common, sometimes gregarious in the district, univoltine, vernal to aestival.

557. *Colias (Eriocolias) crocea* (Fourcroy, 1785) (Fig.23) (Map 10)

Synonym(s): *crocea* Fourcroy, 1785; *pyrenaica* Groum-Grshimailo, 1893. Original Reference: *Papilio croceus* Fourcroy, 1785, Entomologia Parisiensis: 250. Type(s): [France]: Paris. Range (in code): AL AM Ao AT AZ Az Ba BE BG B-H BY CH Co Cr CY CZ DE DK DZ EG ES FI FR GG GR HG HV IQ IR IT Kb Kr LB LT LU LY LV MA MK MT NL NO PL PT Rd RO RU Sa SE Si SK Sm So Sr SS SY Teb TR TN UA VI YU KG Aq Or Uk VI Bs Cb Kt Rk Cw Dv Smt H-W Sur Ssx Ken Mt Sof Ril Syr Cy Rg Rtc Bgz Vrn Slv Sjv Trb Mkl Mst Ko JO He IL Ab Ak Fa Act Acl Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Mu18 Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Pa Hf SA TD SD Agh Cc Arr Ab Khy Oru Jal Ak Shf Msw Qba Sro Mz Dju Tth Ess Tlm Saia Orn Agi Blid Ges Dje BSa Ogl Omy Tou Bsk Ktr Khh Btma Tun Dhm Tgr Phv Ceg Cn Azr 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 68 69 70 71 72 73 74 75 76 77 78 79 80 81 04D 04Db 05A 06B 06C 06D 06G 06H 06K 06N 06P 06R 06Rd 06V 06Z 12A 12Ab 12E 12Eb 13A 13Ab 13Ac 13Ac1 13Ac2 13Ac 13Ag 13Ah 13Ax 13B 13Ba 13Bg 13C 13Cd 13D 13Da 13E 13Ea 13F 13G 13Ga 13Gç 13Gö 13Gğ 13Gk 13Gs 13Gü 13Gv 13Gy 13Gw 13Gz 21L 21Le 21Ld 21La 21N 21Nb 21Nh 21O 23I 23Lb 23E 23M 25F 25Fa 25Fb 25Fc 27C 27D 27Db 30B 30Bb 30Bk 30Br 30Bt1 30D 30Dt 31A 31Aa 31F 31Fb 31K 31Ka 31L 31La 33A 33Ai 33C 33K 33O 35T 35Tc 36D 36Db 36F 36Fb 38H 38Hc 39C 44A 44Aa 44Ab 44F 44Fb 44L 44Lc 45L 45La 46F 46Fc 46Fe 47E 47F 48A 48Aa 48Aç 48F 49E 49Ea 49F 49Fb 49Fe 49Ff 56D 56Dc 56Dh 56Dg 56F 58G 58Gç 58Gd 58Gf 58Gk 58R 58Rb 65B 63Ba 63D 63E 65A 65Ac 65Ac2 65Ai 65Ag 65Am 65Am1 65Am3 65As 65At 65Aç 65Au 65B 65Bc 65Bf 65Bk 65Bn 65Bn1 65Bo 65Bx 65C 65D 65Da 65Dc 65Dç 65Df 65Dg 65Dh 65Dk 65Dlc 65Dm 65Dn 65Dö 65Dr 65Drb 65Dt 65Dv 65E 65Eb 65Ec 65Eç 65F 65Fb 65Fc 65Fç 65Fd 65Fe 65Fg 65Fh 65Fj 65Fm 65Ft 65Fx 65Fy 65Fw 65Fz 65G 65Ga 65Gf 65Gy 65Gç 65Gi 65Gl 65Gn 65Go 65Gs 65I 65K 65Ka 65Ks 65Ku 65Kz 65Kç 65Kw 65Ky 65Ky1 65L 65Le 65M 65Mb 65Mc 65Md 65N 65Nb 65Nc 65Nç 65Nk 65Np 65Np1 65Np5 65Np7 65Nr6 65Nr7 65Ns 65Ns1 65Nj 65Nm 70C 70Cb 72E 72Eb 72Eg 72Ei 73A 73Ad 73D 73Da 73Db 73Df 73H 75F 75Fi 76A 76Ab 76Ac 76B 76Ba 76E 76Ea 80E 80Ea

Common in the district, migrant.

558. *Colias (Eriocolias) thisoa* Ménétriés, 1832

Synonym(s): *thisoa* Ménétriés, 1832; *helena* Herrich-Schäffer, [1844]; *eos* Herrich-Schäffer, [1848]; #*ludmilla* Schulte, 1989. Original Reference: *Colias thisoa* Ménétriés, 1832, Cat. Raisson. Zool. Cauc.: 244. Type(s): [Russia]: Kaukasus Dagestan: Schach Dagh. Range (in code): Cc Arr AM At AZ CN Da GG IR Mz Elb Ab Ak Shh Kb KG KK Kl Kzb Pm RU Sda Shh Teb TJ Tk TR T-S Ui Um Kml Al T-A Irt KuA TeA TrA DsA Tar Sau Ktm KlB 04 08 25 30 36 53 65 69 73 75 76 30B 30Bb 30Bk 36D 36F 65A 65Ab 65B 65Bk 65Bx 65D 65G 65Gd 65Ge 65F 65Fw 65Fz 75F 75Fg 76C

Uncommon in the district, univoltine, alpine species.

559. *Colias (Neocolias) aurorina* Herrich-Schäffer, [1850]

Synonym(s): *aurorina* Herrich-Schäffer, [1850]; #*alba* Rühl, [1893]; #*aurantiaca* Rühl, [1893]; *deserticola* Verity, [1909]; #*cleopatra* Kemal, 2015 Original Reference: *Colias aurorina* Herrich-Schäffer, [1850], Syst. Bearb. Schmett. Eur. 1: f.453-456; ibid.6:22. Syntypes: [Türkei]: Kleinasien [?Amasia]. Range (in code): Cc Arr AM AZ GG Smt Akh Tbl IR Ab Ak Kh Th Ke Kp TM TR RU Da Ahy 01 03 04 05 06 07 08 12 13 14 19 21 23 24 25 29 30 31 32 33 36 37 38 42 44 46 48 49 50 51 53 56 58 60 61 62 65 66 69 70 75 76 80 05A 06B 06C 06H 06K 06R 06Rb 06Rd 06Z 12A 12Aa 13A 13Ac 13Ac2 13Af 13Ax 13C 13Cd 13F 13G 13Gv 13Gw 13Gz 21O 23I 23Ia 25C 25F 25Fb 25Fc 30B 30Bb 30Bk 30D 30Dt 44O 44Of 49F 49Fd 56F 58R 65A 65Ac 65B 65Bk 65Bx 65D 65Do 65F 65Fb 65Fe 65Fj 65Fü 65G 65Ge 66A 70A 70C 70Cd 75F 76C

Uncommon in the district, univoltine, alpine species at Astragalo-Brometea zone.

560. *Euchloe (s.str.) ausonia* (Hübner, [1804])

Synonym(s): *ausonia* Hübner, [1804]; *marchandae* Geyer, [1832]. Original Reference: *Papilio ausonia* Hübner, [1804], Samml. eur. Schmett. 1: pl.113, figs.582-583; 64-65. Syntypes: Italien. Range (in code): Aa AF AL Cc AM Ao At AZ Ba BE BG B-H Bs BY CH Cm CN Co Cr FR GG GR HV IL IQ IT JO KG Kp Ku Ky LB LY MK Mn Or Rd RO RU Si Sm Sp Sr SS SY Tk Syr Tm TM TR T-S UA Ui Uk YU Mt Ko Slv Skp Vrn Rg Rtc TrA Aa Sau Tar DsA Mrk Nym Ktm CY IR Ak Msw Fa Lo Elb Th Zj MA DZ Btna Orn Agi Dja Ah Eba Ktr TN Rbt Tlm Blid Cst Tun Ess Tth Saia Berr BSa Bsk Khh Lbs Hrh Hmk Ndr Ahr Ges Kab Ng Jla 01 02 03 04 05 06 07 09 10 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 48 50 51 54 56 58 60 62 63 65 66 68 70 71 73 74 76 77 78 80 05A 06A 06B 06N 06Na 06R 06Rd 06K 06N 06V 06Z 13G 13Gö 13Gğ 13Gv 21N 21Nb 23I 23Ib 27C 27Cb 27Dc 30A 30Ab 30B 30Bb 31A 31Aa 31C 31F 31M 33A 33K 33O 35L 35La 35T 44L 44Lc 48A 48Ad 48Ak 48Al 48L 56F 58G 58Ga 58Gi 62F 63B 63Ba 63D 65A 65Ac 65B 65Bk 65Bx 65D 65Da 65E 65Eb 65Ec 65F 65Fd 65G 65Ge 66A 73D 73Da 73Db 76A 76Ac 76B 76Bb 76C 80B 80Bc

Uncommon in the district, bivoltine.

561. *Gonepteryx (s.str.) rhamni* (Linnaeus, 1758)

Synonym(s): *rhamni* Linnaeus, 1758; *gravesi* Huggins, 1956. Original Reference: *Papilio rhamni* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 470. Syntypes: Europe, Africa. Range (in code): AF AL Cc AM Asr AT At AZ Ba BE BG B-H Bl BY CH Cls CN Ui Co CZ DE DK DZ ES Fİ FR GB Gg GG GR HU HV IE IN IQ IR IT Kb KG KK Kp Kr Ku LB Ld LT LU LV MA MK NL NO NP Nwf PK Ci PL PT RO RU Rw Sa SE Si SK Sm So Sr SS SY Sz Teb TJ TM TN TR UA UK UZ VI Zi Gj Aq YU Ng Jla Lgh T-S Mu Bn Tk Aa Sp Mn At No To Om Ty Kg Cb Kw Pw Ka Sb Tt So Sau Tar DsA TrA Cw Dv Smt H-W Sur Ssx Ken Mt Ko Sof Rtc Slv Bgz Sjv Trb LB Kits MM Ab Ak Msw Gh Mz Elb Th Arr Kh Glz Koh Swa Sgl Dju Rf Agi Blid Btna Tun Dhm Tgr Hrh 01 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 19 24 25 26 30 31 32 33 34 35 36 38 39 42 43 44 46 47 48 49 50 51 52 55 56 60 62 65 66 67 69 71 73 75 76 81 05A 06A 06C 06G 06H 06R 06Rb 13B 13Bg 13F 13F33 13G 13Gs 13Gw 24E 24Ea 25F 25Fa 25Fc 30B 30Bb 30Bk 30D 30Df 33A 36F 36Fb 56D 56Dc 65A 65Ai 65Ag 65Am 65Am1 65D 65Da 65Dk 65Dl 65Dlc 65Dn 65Dm 65Do 65Dt 65F 65F1 65Fd 65Fj 65Fq 65Fz 65K 65Kb 65Kl 65Km 65Ks 65N 65Nc 65Ng 65No 65Np 65Nm 66A 75F 75F1 76D 76Da

Uncommon in the district, univoltine, adults hibernate.

562. *Leptidea duponcheli* (Staudinger, 1871) (Fig.24)

Synonym(s): *duponcheli* Staudinger, 1871; #*duponcheli* Nazari, 2003 Original Reference: *Leucophasia duponcheli* Staudinger, 1871, Cat. Lepid. Eur. Faunengeb. (2): 5. Syntypes: [France]: Gallia mer., Pedemont; [Turkey]: Bithynia, Pontus. Range (in code): AL BG B-H ES FR GR MK TR Cc LB YU Mt Ko Slv IQ IR Ab Ak Elb Th Fa 01 03 04 05 06 07 08 10 11 13 14 15 16 17 18 19 20 21 22 23 24 25 26 29 30 31 32 33 34 35 36 37 38 40 41 42 43 44 45 46 48 49 50 51 53 56 58 59 60 62 64 65 66 67 69 70 71 73 74 76 78 05A 06B 06C 06G 06K 06N 06P 06R 06Rb 06V 06Z 13B 13Ba 13Bz 13D 13Da 13G 13Gw 13Gs 18F 23D 23Dc 25F 25Fa 30B 30Bb 30Bk 30D 30Df 30Dt 36F 36Bg 46F 49E 49Fa 56F 58G 58Gi 58Gj 58R 58Rb 65A 65Am 65Am1 65Am2 65At 65B 65Bk 65Bn 65Bx 65D 65Dc 65Df 65Dh 65Dk 65Dl 65Dn 65Dr 65E 65Eh 65F 65Fc 65Fç 65F1 65Fd 65Fe 65Fg 65Fh 65Fq 65Fy 65Fz 65Fz 65G 65Ge 65K 65Ka 65Kb 65Kc 65Kg 65Kl 65L 65Le 65N 65Np 65Np2 65Nr7 65Nm 66A 76C 76D 76Da 78D 78Da

Uncommon in the district, bivoltine, inhabits in the steppe.

563. *Leptidea sinapis* (Linnaeus, 1758) (Fig.25)

Synonym(s): *sinapis* Linnaeus, 1758; *candidus* Retzius, 1783; *erysimi* Borkhausen, 1788; *lathyri* Hübner, [1819]; *loti* Rennie, 1832; *umbratica* Trimoulet, 1858; *sartha* Rühl, 1893; *stabiarum* Stauder, 1914; *nigrescens* Verity, 1919; *patunae* Stauder, 1922; *lathyricana* Verity, 1952. Original Reference: *Papilio sinapis* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 468. Type(s): [Europe]. Range (in code): Aa AL At AT Aty Ba BE BG B-H Bs BY Cb CH CN Co Cr

CZ DE Dj DK EE ES FI FR GB GR HU HV IE IT Kb Kg KG Kr Ku Kw LT LU LV MK Mn NL No NO Om Or PL Pp PT Pw RO RU Sa Sb SE Sem Si SK Sm So Sp Sr SS Teb Tk To TR T-S Tt Ty UA Ui Uk VI YU Cw Dv Smt H-W Sur Ssx SY Mt Ko Vrn Bgz Slv Sjv Trb Mst LB Kts DsA TrA Ket Sau Tar Bn Act Alc Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vel Zg Zm MA Rif Cz Ab 01 03 04 05 06 07 08 09 10 11 13 14 15 16 17 18 19 20 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 45 46 48 49 50 52 53 54 55 58 60 61 62 65 66 67 69 70 74 76 77 78 79 75 76 80 81 05A 06G 06R 06Rd 13F 13G 13Gö 13Gü 13Gw 14I 14Ib 25F 25Fa 27C 30B 30Bk 30D 30Dt 31A 31Aa 31B 31E 31F 31K 31Ka 31L 31La 31M 33A 33K 36F 36Fb 39C 46G 46Gf 65A 65Ai 65D 65Dl 65Dlc 65Do 65Dp 65F 65Fg 65Fj 65Fq 66A 78D 78Da 80B 80Bc

Uncommon in the district, bivoltine, inhabits in the woodlands.

564. *Pieris (Artogeia) ergane* (Geyer,[1828])

(Fig. 26)

Synonym(s): *ergane* Geyer,[1828]; *narcaea* Freyer,[1828]. Original Reference: *Papilio ergane* Geyer,[1828], [in] Hübner, Samml. eur. Schmett. 1: Taf. 184 figs. 904-907. Syntypes: [Croatia]: Ragusa (Dubrovnik) (cf. Hemming, 1937, I:220). Range (in code): AL Cc Arr AM AT AZ BG B-H Cr ES FR GG GR HU HV IQ Hjo IR Ab Sro Msw Ak Elb Th Kdj IT LB MK RO SS TR YU Mt Ko Mst Trb Ple Cue Hue Lda Gna 01 02 03 04 05 06 07 08 12 13 14 15 16 18 21 23 24 25 26 28 29 30 31 32 33 36 38 42 43 44 46 47 49 50 51 52 56 58 60 62 63 65 66 69 71 73 74 76 04D 04B 05A 06M 06R 06Rd 06Z 07D 07Db 13A 13Ab 13Ac 13Ac2 13Ac3 13Ax 13F 13F35 13G 13Gö 13Gü 13Gv 13Gw 21O 23D 23Dc 23I 25F 25Fa 25Fb 25Fc 27D 30B 30Bc2 30Bx 30Bk 30Bb 30Br 30D 30Df 30Dt 31B 31K 31Ka 36F 36Fb 44F 44Fb 44L 44Lc 46F 46G 46Gf 49E 49Ea 49F 49Fb 56F 58G 58Gj 58Gi 58Gk 63B 63Ba 63D 65A 65Ac 65Ac2 65Ac4 65Ai 65Am 65Am1 65Am2 65Am3 65Am4 65Ar 65At 65B 65Bn 65Bn1 65Bk 65Bo 65Bx 65D 65Da 65Dc 65Dç 65Dd 65Dda 65Df 65Dh 65Dk 65Dl 65Dlc 65Do 65Dp 65E 65Eb 65Ec 65F 65Fc 65Fd 65Fe 65Fg 65Fh 65Fj 65Ft 65Fm 65Fq 65Fr 65Fs 65Ft 65Fu 65F3 65Fw 65Fz 65G 65Gf 65Gg 65Gy 65Gh 65Gi 65Gl 65Go 65Gp 65K 65Kb 65Kç 65Kc 65Kl 65Km 65Kq 65Kö 65Kw 65N 65Np 65Nm 66A 73A 73Ad 73Ad2 76C 76D 76Da 76Dg

Common in the district, bivoltine.

565. *Pieris (Artogeia) krueperi* Staudinger,1860

(Figs. 26, 27)

Synonym(s): *krueperi* Staudinger,1860. Original Reference: *Pieris krueperi* Staudinger,1860, Wien. ent. Monatschr. 4: 19-20. Syntypes ♂♂: "Graecia": Arkanania. Range (in code): AF AL BG Chi GR IQ IR Elb Th Fa Ke Ss Kos Ld MK OM SA Bhk PK SYr TeA TR Cc Slv Tm Ikc KK KG T-S IN CN Ui Ga UZ Smk 01 02 07 08 09 10 13 16 17 21 25 30 32 33 35 36 39 42 45 46 48 51 56 58 62 65 70 72 73 76 80 13F 13G 13Gw 21N 21Nb 25F 25Fa 25Fb 30B 30Bc2 30Bx 30Br 30D 30Dt 33K 36F 36Fb 39C 46G 46Gf 48D 56F 58G 58Ga 58Gi 65A 65Ac 65Ac4 65Am 65Am2 65Am3 65D 65Dc 65Dç 65Do 65Dd 65Dda 65Df 65E 65Ea 65F 65Fc 65Fz 65K 65Kö 70B 72E 72Eg 72Eh 73A 73Ad 73Ad2 76B 76Bf 76Bh 80B 80Bc

Uncommon in the district, bivoltine.

566. *Pieris (Artogeia)mannii* (Mayer,1851)

Synonym(s): *mannii* Mayer,1851; *manni* Verity,1908; *alpigena* Verity,1911; *roberti* Eitschberger & Steiniger,1973. Original Reference: *Pon[tia] mannii* Mayer,1851, Stettin ent. Ztg. 12:151. Type: [Croatia]: Spaloto.

Range (in code): AL AT BG B-H CH CZ ES Mlg Grn Alm Mu Mdr Hue Gna Bar Ter FR GR HU HV IT Kr MA Tgz MK RU Co Sa Si SK SS TR Cc UA YU Mt Ko Sjv Mst IR Ak Shf Mz Glc 01 02 03 06 07 08 10 11 13 14 17 18 21 23 24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 42 43 44 45 46 47 48 49 50 51 53 56 61 62 65 67 69 73 74 75 76 78 80 13A 13Ab 13Ax 13B 13Bg 13C 13Cd 13G 13Gw 21L 21Le 21N 21Nb 25F 25Fa 25Fb 30B 30Bb 30Bk 30Bf 30D 30Dt 36F 36Fb 44L 44Lc 46F 46Ff 46G 46Gf 49E 49F 49Fb 56F 65A 65Ar 65D 65Dl 65Dlc 65Do 65Dp 65E 65Ea 65F 65Fc 65Fz 65K 65Kö 70B 72E 72Eg 72Eh 73A 73Df 76B 76Bf 76Bh 80B 80Bc

Common in the district, bivoltine.

567. *Pieris (Artogeia) persis* Verity,1922

Synonym(s): *persis* Verity,1922; *higginsi* Bowden,1961. Original Reference: *Pieris napi* ssp. *persis* Verity,1922, Entomologist's Rec. J. Var. 34: 140. Lectotype ♀: [Iran]: Persia, Husseinabad, J. de Morgan leg. (MNHN). Range (in code): IR Kd TM Kp TR IQ Hjo Ry 13 21 30 44 49 56 65 73 76 13A 13Ab 13Ax 13G 13Gi 13Gö 13Gü 13Gü 13Gw 21N 21Nb 30B 30Bb 30Bk 30Bf 30D 30Dt 44F 44Fb 49F 49Fb 56F 65A 65Ai 65Ag 65Am 65Am1 65B 65Bk 65Bn 65Bn1 65D 65Dl 65Dlc 65Do 65Dp 65Gt 65F 65Ft 65Fc 65Fz 65L 65Le 73D 73Df 76B 76Bf 76Bh

Common in the district, bivoltine.

568. *Pieris (Artogeia) pseudorapae* Verity,1908

Synonym(s): *pseudorapae* Verity,1908. Original Reference: *Pieris napi* var. *pseudorapae* Verity,[1908], Rhopalocera palaearctica: 144, pl. 32, 33, figs. Lectotype: [Lebanon]: Beyrouth (Bowden & Riley,1967). Range (in code): Cc Arr AM AZ BG B-H Da GG GR HV IQ Ssa Slh Hjo IR Elb Mz Th JO LB Le MD MK RO RU SY TR UA YU 01 03 04 05 06 07 08 10 11 12 13 14 16 17 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 67 68 71 73 74 75 76 77 78 80 81 05A 06A 06B 06K 06R 06Rd 06S 06V 06Z 13A 13Ab 13Ax 13B 13Ba 13F 13F33 13F35 13G 13Gs 13Gü 13Gv 13Gy 13Gw 21N 21Nb 21Nh 21O 23I 23Ib 23M 25F 25Fa 27C 30B 30Bc2 30Bx 30Bk 30Bb 30D 30Dt 30Du 31A 31Aa 31B 31L 36F 36Fb 39C 44F 44Fb 44L 44Lc 44O 44Oc 46F 46G 46Gf 49E 49Ea 56F 58G 58Ga 58Gi 58Gj 65A 65Ar 65Bx 65D 65Dc 65Dk 65Do 65F 65Fb 65Fg 65Fh 65Fz 65G 65Ge 65Gn 65K 65Kç 65N 65Np 65Nm 66A 73D 73Da 73Db 73Df 75F 76A 76Ab 76C 78D 76Da

Common in the district, bivoltine.

569. *Pieris (Artogeia) rapae* (Linnaeus, 1758)

Synonym(s): *rapae* Linnaeus, 1758; *nelo* Bergsträßer, 1780; *metra* Stephens, 1827; *alpica* Rossi, 1929. Original Reference: *Papilio rapae* Linnaeus, 1758, Syst. Nat. (Edn.10): 468. Lectotype ♂: [Sweden (Verity, 1947)] (LSL). Range (in code): Ae AF AL AT Az BE BG BH B-H BY Ch CH Ci CN Cn Co Cr CY CZ DE DK DZ EE ES FI FR GB Gg GR HK HU HV IE IN IQ IR IS IT JO JP KG KK Kp KW Ld LT LU LV MA Mc Md MK MN MT Nf Nj NL NO OM PK PL PT QA Rd RO SA Sa SE Si SK SS SY TJ TM TN TR UA UZ YU Aa Am Ao At Aty Ax Ba Bs Cb Ike Ir Ka Kg Kp Kr KuA Kw Ky Mn No Om Pe Pr Pt Pv RU Sh Sj Sm So Sp Sr St TeA Tk Tm TrA Trt Us Vl Cv Dw Smt H-W Sur Ssx Ken Mt Ko Ril Sjv Mst Mkl T-S Um Bl Ci Bn DsA Sju Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ces Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Mu18 Nrr Ore Pv Rio Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Lug Ple San US MX Aks Alb Arz Cf Cnt Col Dw Fl Ge Id Idp Iln Io Kan Knt Lou Mai Mch Mis Mns Mon Mrl Msc MSS NCa NDk NMx Ne Neb Nh Nje Ny Oh Ok Org Pns RDi SCa SDk Tnn Tx Ut Vi Vr WVi Wc Ws Wy AU Hw Agh Pa Hf TW Kml JP RU Am Us Sh TW VN D-I Ldo GG AZ Kir AM Cc Arr Ab Jal Mz Gls Kh Koh Nra Bhk Rbt Tbl Sok Ess Tlm Saia Orn Agi Blid Ges Ogl Bttna Cst Tun Tgr Tou Bea Gle Azr Ng Hr BLM Kab AU QAU NSW Syd SAU Cai 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 64 65 66 68 69 70 71 73 74 75 76 77 78 79 80 05A 06A 06B 06C 06G 06H 06K 06N 06P 06R 06Rd 06V 06Z 07A 07Ad 07B 07Bb 07M 07Mb 13F 13F35 13G 13Gç 13Gs 13Gü 13Gy 13Gw 21L 21Lf 21N 21Nb 21Nh 23C 23Cc 23D 23Dc 23I 23M 23G 25F 25Fa 25Fb 25Fc 27C 27Cb 29A 29Ae 30B 30Bb 30Bk 30D 30Dt 31A 31Aa 31F 31Ka 31L 31La 31O 33A 33Ai 33C 33K 33O 36D 36Db 36F 36Fb 39C 42D 42Dc 44F 44Fb 44L 44Lc 44O 44Oi 45L 45La 46F 48Aa 48Ak 48Ab 48D 48F 49E 49Ea 49F 49Fb 56F 58G 58Gk 58Gj 58Gi 63B 63Ba 63D 63E 65A 65Ar 65B 65Bk 65Bx 65D 65Dk 65Do 65G 65Ge 65Gt 65H 65He 65E 65Eb 65F 65Fd 65Fh 65Fg 65Fn 65Fr 65K 65Kh 65N 65Nc 65Kl 65Ku 65M 65Md 66A 73A 73Ad 73Ak 73D 73Da 73Df 75F 75Fi 76B 76Bb 76Bf 76Bh 76C 76D 76Da 76E 76Ea 78D 78Da

Common in the district, bivoltine.

570. *Pieris* (s.str.) *brassicae* (Linnaeus, 1758)

Synonym(s): *brassicae* Linnaeus,1758; *chariclea* Stephens,1827; *#venata* Verity,1908; *cyniphia* Turati,1924.
Original Reference: *Papilio brassicae* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 468. Type(s): [Europe].
Range (in code): Adr AF AL At AT Az Bd BE BG B-H Bs BY Cb CH CN Co Cr CY CZ DE DK EE ER ES FI FR GB GR Hk
HU HV IE ii IL IQ IR IS IT JO Ka Kab Kbb Kg KG KK Kp Kr Kw Ky LB LT LU LV MK MT NL No NO NP Om Pag PK Ci
PL PT Pw Rd RO RU Sa Sb SE Si SK So SS Tm TM TR Tt UA Uz Aa Ax Ikc KuA Mn Sp Tk TrA Cw Dv Smt H-W Sur
Ssx Ken Ko MA DZ TN Sjv Trb Sof Rg Rtc Slv Mt LY Cy SY Kts T-S Um Bn DsA Elb Th Sju Act Alc Alv Altu Av Bad
Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Ssa Cc AZ
Len Pv Rio Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Lug Ple San Mu18 IN Ass Slo Dk TH Pa Hf Ab Ak Shf Mz Gls Kh
Koh Swa Gg Bt Nwf Pes Mdy Rbt Azr Ess Orn Agi Blid Bsk Ktr Tlm Cst Bttn Tun Tgr Mzg Hrh Ng Hr Prw 01 02 03 04
05 06 07 08 09 10 12 13 14 15 16 17 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 48 49 50
51 52 53 54 55 56 58 60 61 63 65 66 70 71 73 74 75 76 77 78 80 81 04D 04Db 05A 06B 06C 06G 06K 06R 06Rd 06V 07A
07Ab 07Ag 07B 09K 09Ka 13A 13Ab 13Ac 13Ac3 13Ax 13B 13Ba 13Bg 13F 13F7 13F71 13G 13Gi 13Gö 13Gč 13Gk 13Go
13Gs 13Gč 13Gw 14I 14Ib 21N 21Nb 23G 23E 25F 25Fa 30B 30Bk 30D 30Df 30Dt 30Dx 31A 31B 31C 31E 31F 31Fb 31K
31Ka 31L 31La 33A 33Ai 33C 33K 33O 36D 36Db 39C 44A 44Aa 44E 44F 44Fb 44L 44Lc 45L 45La 46F 46Fc 48A 48Aa
48Ag 48Ak 48Al 48D 48F 48L 49E 49Ea 49F 49Fe 56F 56Fa 58G 58Gi 65A 65Ai 65Ar 65B 65Bk 65Bx 65D 65Dc 65Dk
65Dl 65Dlc 65Do 65Dw 65F 65Fb 65Fd 65Fç 65Fj 65F3 65Fg 65Fq 65G 65Ge 65Gt 65K 65Kö 65Kq 65Km 66A 73D 73Db
76A 76Ac 76B 76Bf 76Bh 76C 76D 76Dg 78D 78Da

Common in the district, bivoltine.

571. *Pontia chloridice* (Hübner, [1813])

Synonym(s): *russiae Esper,[1784]* nec *russiae Esper,[1783]*; *chloridice Hübner,[1813]*; #*aestuosa Staudinger,1901*; *albidice Staudinger,1901* nec *Oberthür,1881*. **Original Reference:** *Papilio chloridice* Hübner,[1813], Samml. eur. Schmett. 1: pl. 141, figs. 712-715. Syntype(s): [Europe]. **Range (in code):** AF Ng Jla Bl Ao Aq Bn At Ba BG BY Cb Ci CY Dj DsA FI Gg GR IQ Kq IR Ab Ak Elb Th Kh Lo Ka Kbb KG KK Kw Ld LT LV MK Mn MN Mrk Om Or PK Pnj Pw Rk RU Sau Sb Sem Sm So Sp Sr Tar TeA Tk TR Cc Tt UA UK VI Slv Rg T-S CN Ui Adu Um 03 05 06 07 08 10 12 13 16 18 21 23 24 25 29 30 33 34 35 36 42 44 45 46 48 50 56 60 62 63 65 69 71 73 76 05A 06R 06Rd 07A 07Af 07B 07Ba 12B 13G 13Gs 13Gw 21N 21Nb 21O 23C 23Cc 23M 23M 24L 25F 25Fa 25K 25N 30A 30Aa 30B 30Ba 30Bc 30Bx 30Bf 33A 35L 36D 36Db 46L 50G 50Gd 56A 56Aa 56E 56F 56Fa 56Fu 56Fy 56Fb 56F1 56F3 56Fé 56Fç 56Fz 56Fg 62F 65A 65Ai 65D 65Da 65Dh 65Do 65Doa 65F 65Fd 65G 65Gi 65K 65Kb 65Kc 65Kl 73A 73Ab 73C 73Cd 73D 73Dg 76B 76Ba

Common in the district, bivoltine.

572. *Pontia edusa* (Fabricius, 1777)

Synonym(s): *edusa* Fabricius,1777; *bellidice* Ochsenheimer,1808; *persica* Bienert,1869; *#nitida* Verity,[1908].
Original Reference: *Papilio edusa* Fabricius,1777, Genera Insectorum: 255. Type(s): [Deutschland]: Chilonii. Range (in code): Aa Ae Aq Bn At Kts Aty Ax BG Bs Cb CN CY DE Dg Dj GG Gj GR IQ IR IT Kg KG KK Kp
Kt KuA Ky Mg MK Mn No Nrk Om Or Pp Rd Rk RU Sb Sem Sm Sp SS TeA TJ Tk Syr Tm TM TR TrA Ty Ui Uk UZ YU Ze
SY Um Ku DsA T-S Ab Ak Ahw Ar Ara B-A Bk Brz Bu By Dzf Es Fa Gh Gor Adu Sju Ha Hz Il Kaz Kd Kh Km Kz Lo Ma
Mz Qz Se Ss Th Yz Zj Ab Jal Sro Msw Ak Agh Cc 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31 32 33 34 35 36 38 39 40 41 42 43 44 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 67 68
69 70 71 73 74 75 76 77 78 79 80 81 04D 04Db 05A 06B 06D 06H 06K 06N 06P 06R 06V 06Z 13A 13Ab 13Ac
13Ac2 13Ac3 13Ae 13Af 13Ag 13Ah 13Ax 13B 13Bg 13C 13Cd 13F 13F33 13G 13Gö 13Gg 13Gv 13Gw 18F 21N 21Nb 21O 23C
23Cc 23D 23Dc 23I 23G 25F 25Fa 25Fb 25Fc 27C 27Cb 27D 27Db 27Dd 30B 30Bk 30Bb 30Br 30Bt1 30D 30Df 30Dt

30Du 31A 31Aa 31B 31F 33A 33C 33K 33O 36F 39C 44E 44Ei 44F 44Fb 44I 44L 44Lb 44Lc 46D 46Da 46F 46G 46Gg 47F 48A 48Aa 48Ak 48Ah 48F 49E 49Ea 49F 49Fb 56F 58G 58Ga 58Gd 58Gj 58Gi 58R 58Rb 63B 63Ba 63D 63E 65A 65At 65Au 65B 65Bk 65Bn 65Bn1 65Bo 65Bx 65D 65Dc 65Dd 65Dda 65Df 65Dl 65Dlc 65Do 65Dp 65Dq 65Dr 65Drb 65E 65Eb 65Ec 65F 65Fb 65Fc 65Fe 65Fh 65Fg 65Fn 65Fr 65Ft 65Fu 65Fy 65Fw 65Fz 65F3 65G 65Gf 65Gy 65Gm 65Gn 65Go 65Gp 65Gs 65K 65Ka 65Kb 65Kg 65Kç 65Kl 65Ks 65Kp 65Ku 65Kw 65Ky1 65M 65Mb 65Mc 65Md 65N 65Nk 65No 65Np 65Np1 65Ns 65Nm 66A 73A 73Ad 73D 73Df 73H 75F 75Fc 76A 76Ac 76B 76Ba 76Bb 76C
Common in the district, bivoltine.

573. *Zegris eupheme* (Esper, [1804])

Synonym(s): *eupheme* Esper, [1804]; *erothoe* Eversmann, 1832; *tschudica* Herrich-Schäffer, [1851]. Original Reference: *Papilio eupheme* Esper, [1804], Die Schmett. (Suppl.) 1(1):105, pl.113, figs.2,3. Syntypes: [Ukraine]: "Gegend Sewastopol in Taurien". Range (in code): MA Azr Ifr Cc AM At AZ CN DsA ES Mu Mu18 GG IQ Fat Qg Jd IR Ar Ab Khy Ak Zj Kz Fa Ha JO KG Ku MA Mn Nym Rk RU SA Sm Sp Sr TR Arr TrA DsA Ui Uk VI T-S SY Mu Lda Hue Mlg Sma Snv Sor Vcl Zg Bgs Bar Alc Act Abr Mdr Cue Ter Cas Gu Seg Tol CRe Jae Grn Alm Av Trg 01 04 05 06 07 11 18 24 25 30 31 32 33 36 38 42 44 46 50 51 58 60 65 71 73 76 04D 04Db 05A 06A 06B 06K 06R 06Rd 07A 07Ad 30B 30Bc 30Be 30Bx 30D 30Dt 31M 33P 36D 36Db 36Df 36F 36Fb 38H 42B 42R 44L 58C 58G 58Ga 58Gf 65A 65Am 65At 65At2 65B 65Bn 65D 65Dc 65Dd 65Dda 65Df 65Dj 65Dk 65Dn 65Dr 65Drb 65E 65Eb 65Ec 65F 65Fc 65Fe 65Ff 65Fz 65K 65Ka 65Ks 65Kz 65Kg 65Ky 65Ky1 65M 65Mc 65Md 73C 73Cd 76A 76Ac 76B 76Bj 76C 76D 76Dd
Uncommon in the district, univoltine.

Lycaenidae

574. *Callophrys danchenkoi* Zhdanko, 1998

Synonym(s): *danchenkoi* Zhdanko, 1998 Original Reference: *Callophrys danchenkoi* Zhdanko, 1998, Vestn. Kaz. Univ. 6: 48-49, fig.3. Holotype ♂: Armenia: Daralagez, 1100m. Range (in code): Cc AM Alg Eri IR Ab Ak Msw Elb Fa Ke Zj SY Dms TR IQ Ssa 04 07 13 25 30 36 56 58 65 73 07D 07Db 13B 13Ba 13G 13Ga 13Gö 13Gğ 30B 30Ba1 30D 30Df 36F 36Fa 56F 58G 58Gf 65A 65Am 65Am1 65D 65Da 65Dç 65Dk 65Dn 65Dt 65Dy 65G 65F 65Fd 65Fe 65Fp 65Fq 65Fz 65G 65Gg 65Gi 65Gt 65Gy 65K 65Kl 65Ks 65N 65Np 65Np1 65Nm 73A 73Af 73C 73Cd Common in the district, univoltine, inhabits in the *Astragalus* steppe.

575. *Callophrys herculeana* Pfeiffer, 1927

Synonym(s): *herculeana* Pfeiffer, 1927 Original Reference: *Callophrys rubi* var. *herculeana* Pfeiffer, 1927, Mitt. Münch. Ent. Ges. 17: 40. Syntypes ♀♂: [Türkei, Isparta Prov.]: "Egerdir [=Eğridir] (ZSM). Range (in code): TR 13 21 32 42 56 65 13F 13G 13Ga 13Gv 21N 21Nb 32C 56B 56F 65A 65Ai 65D 65Dj 65Dk 65Dü 65Dn 65Dt 65K 65Kg
Common in the district, univoltine, inhabits in the woodlands.

576. *Callophrys paulae* Pfeiffer, 1932

Synonym(s): *paulae* Pfeiffer, 1932; *?alpicola* Koçak, 1989 Original Reference: *Callophrys paulae* Pfeiffer, 1932, Mitt. münchen. ent. Ges. 22: 30-31, Taf.3 fig.13. Type ♂: [Turkey]: türkisch Nordsyrien: Marasch [Kahramanmaraş], Achyr Dagh, 1800-2000m. Range (in code): Cc AM AZ TR IR Kh TM Kp 07 24 25 30 38 46 50 51 60 62 65 69 70 73 75 07D 07Db 30B 30Bp 46G 65A 65Am 65Am1 65B 65Bk 65Bn 65Bn1 65Bx 65D 65Da 65Dl 65Dlc 65F 65Fp 65Fz 65G 65Gf 65Ge 65Gd 65N 65Np 65Np1 65Np2 65Np4 65Nr4 65Nm 69B 69Ba 70A
Common in the district, univoltine, inhabits in the *Astragalus* steppe.

577. *Celastrina argiolus* (Linnaeus, 1758)

(Fig.28)

Synonym(s): *argiolus* Linnaeus, 1758; *cleobis* Sulzer, 1776; *thersanon* Bergsträßer, 1779; *argyphontes* Bergsträßer, 1779; *argalus* Bergsträßer, 1779; *marginatus* Retzius, 1783; *acis* Fabricius, 1787 nec *Dru.*, [1773]; *#parvipuncta* Fuchs, 1880; *calidogenita* Verity, 1919; *britanna* Verity, 1919. Original Reference: *Papilio argiolus* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 483. Type ♀: Europa (Linnean coll. London) [gen. vern.]. Range (in code): He IL Ae AL AM Ao At AT AZ Ba BE BG BY CH CN Co Cr CY CZ DE DK DZ EE ES FI FR GB GG GR HU IE IQ IR IT KG KK Ku LT LU LV MA MK MT NL NO PL PT Rd RO RU Sa SE Si SK Sm So Sr TM TN TR UA Ui Uk VI YU Cw Dv Smt H-W Sur Ssx Ken SY Kuz Sli Dsa TrA KuA Ax Sau Ta JP MN KP KR TW Yu PH Luz Vv Sh Buc Mrk US CA MX PA LB Sj AF Als Ssk Mnt Mon We Nfl Ti Btr Ats BCo Cf Ut Ne NMx PA GT Us Mc Bry Ok Sca Tx Ge Lou Kan Aks MSS Alb Bn T-S Ab Ak Elb Th Ha Fa Act Alc Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ces Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm MX Arz Cf Cnt Col Dw Fl Id Idp Iln Knt Mai Mch Mis Mns Mon Mrl Msc NCa Ndk NMx Ne Neb Nh Nje Ny Oh Org Pns RDi SDk Tnn Ut Vi Vr WVi Wc Ws Wy Nsr TH CMa CDo MM NP IN Clc SI Slo Ass VN Ann Cc Arr Shf Agi Ssa 01 02 03 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 45 46 47 48 49 50 51 52 53 54 55 58 59 60 61 62 65 66 67 69 72 73 75 76 78 81 01D 01G 01H 01K 05A 06C 06G 06K 06R 06Rd 06Z 07A 07B 12A 12Ab 12Ai 13A 13Ab 13Ax 13B 13Ba 13Bg 13E 13Ea 13F 13F35 13G 13Ga 13Gö 13Gğ 13Gv 13Gw 13Gs 21L 21Lf 21N 21Nb 21O 23D 23I 23Ia 23Ib 23M 25F 25Fa 27C 30B 30D 30Df 30Dh 30Dt 31A 31Aa 31L 31La 31F 31M 33A 33K 36F 36Fb 39C 44F 44Fa 45L 45La 48A 48Ak 49E 49Ec 49F 49Fb 53L 56F 62E 65A 65B 65Bk 65Bx 65D 65Dç
Common in the district, bivoltine.

65Dh 65Dk 65Do 65Dt 65Dx 65F 65Fc 65Fd 65Fe 65F1 65Fq 65Ft 65Fu 65Fy 65F3 65Fz 65G 65Ge 65Gp 65K 65Kg 65N
 65Np 65Nm 66A 72E 72Ec 73A 73Ad 73Ad2 73Aj 73C 73Cd 76B 76Ba 76C 78D 78Da 80B 80Bc 80Bd 80C
 Common in the district, inhabits in the woodlands.

578. *Cupido (s.str.) osiris* (Meigen,[1829])

Synonym(s): *osiris* Meigen,[1829]; *saportae* Duponchel,1832; *violacea* Verity,1911; *sebrus* Boisduval,[1833].
Original Reference: *Polyommatus osiris* Meigen,[1829], Syst. Beschr. eur. Schmett. 2:7, pl.46, figs.
 3a,b. Range (in code): Lim Ae AL At AT Ba BG BY CH DE ES Mu FR GR HU IT KK MK PT RO RU SK Sr TR Arr Cc
 GG Smt Akh T-S UA YU KG Sau Tar DsA Ket Tls IR Ab Ak Msw CN Ui 01 03 04 05 06 07 08 10 11 13 14 15 16 17 18 19
 21 23 24 25 26 28 29 30 31 32 33 35 36 37 38 39 41 42 44 46 48 50 51 52 53 56 58 59 60 61 62 65 66 67 68 69 70 71 73 75
 76 78 81 01L 01La 04I 05A 06A 06C 06G 06B 06K 06N 06P 06R 06Rd 06S 06Z 13A 13Ab 13Ax 13B 13Ba 13Bg 13D 13Da
 13G 13Ga 13Gv 13Gw 21N 21Nb 23D 25Fa 25Fc 30B 30Bb 30Bc2 30Bx 30Bk 30D 30Df 30Dh 30Dt 33K 36D
 36Df 36F 36Fc 38G 38Ga 44E 44L 44Lc 46F 46Fc 46Fd 46H 46Hc 46F 46Fc 46Fd 56D 56Dh 56Dg 56Dh 56Dg 62E 65A
 65Ac 65Ac2 65Am 65Am1 65Am2 65At 65B 65Bn 65Bn1 65Bk 65Bx 65D 65Dc 65Dc 65Dq 65Dn 65Do 65Dt 65F 65Fb
 65Fc 65Fc 65Fd 65Fe 65F1 65Fj 65F3 65Fw 65Fz 65G 65Ge 65K 65Kc 65Kg 65Kl 65Kü 65Kz 65L 65Le 65N 65Np 65Nm
 66A 73C 73Cd 75E 76C 78D 78Da

Common in the district, univoltine.

579. *Glaucopsyche (Iolana) lessei* Bernardi,1964 (Fig.29)

Synonym(s): *lessei* Bernardi,1964; *christinae* Betti,1977; *cappadocia* Betti,1977 Original Reference: *Iolana iolas* ssp. *lessei* Bernardi,1964, Alexanor 3: 276-277. Holotype ♂: Turquie: Amasia. Range (in code): Cc TR IQ Ssa LB 01 03 05 06 07 08 13 15 16 18 21 23 24 25 30 33 35 37 38 42 43 46 48 50 51 56 60 62 65 70 73 05A
 06Kc 06N 06P 06R 06V 13C 13Cd 13F 13G 13Gb 25F 25Fa 33K 46F 56F 62E 65A 65Ai 65D 65Dl 65Dm 65Do
 65Doa 65Dn 65F 73D 73Dg

Uncommon in the district, inhabits in the woodlands; larval food-plant is *Colutea* (Fabaceae).

580. *Glaucopsyche (s.str.) alexis* (Poda,1761) (Fig.30)

Synonym(s): *alexis* Poda,1761; *damaetas* [Denis & Schiffermüller,1775; #*sublugens* Strand,1909; #*insulicola* Turati & Fiori,1930; *mironi* Coutsis,1976. Original Reference: *Papilio alexis* Poda,1761, Insecta Musei Graecensis.:77. Type(s): [Austria]: Steiermark. Range (in code): AF AL AM AT At Bn Cc AZ Ba BE BG BY CH Co CZ DE DK DZ Afl Lbs Btna EE ES Mu Mu18 FI FR GG GR Rd HU Ii IT KG Ku LT LU LV MK NO PL PT RO RU SE Si SK Sm So Sr TM TN TR Arr LB IQ Ssa Rzw UA Uk VI YU He IL Pa Hf IR Ab Jal Th 01 02 03 04 05 06 07 08 09 11 12
 13 14 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 46 47 48 49 50 51 52 56 58
 60 61 62 65 66 68 69 70 71 73 74 76 80 01A 01H 01K 04D 04Db 04I 05A 06A 06B 06C 06K 06N 06P 06R 06Rd 06S 06V
 06Z 13D 13Da 13E 13Ea 13F 13G 13Gb 13Gö 13Gg 13Gv 21L 21Le 21Lf 21Ld 21N 21Nb 23I 25F 25Fa 25Fc 27C 27Cb 27D
 27Db 27Dc 27Dd 27F 29A 30B 30Ba 30Bg 30Db 30De 30Dt 31A 31Aa 31B 31F 31K 31Ka 31L 31La 33A 33Ah 33Ai
 33C 33K 36D 36Da 36Dd 36F 36Fc 38B 38Hc 38Hf 44I 44Ia 44L 44Lc 46F 46Fc 46Fd 46G 47B 47E 56D 56Db 56F 65A
 65Am 65Am1 65Am2 65Am4 65As 65At 65At1 65D 65Dc 65Df 65Dg 65Dj 65Dk 65Dl 65Dq 65Dn 65Dm 65Dr
 65Drb 65Dt 65E 65Eb 65Ec 65F 65Fb 65Fc 65Fp 65Ff 65Fg 65Fq 65Fz 65F3 65K 65Kd 65Kg 65Kl 65L 65Le
 65N 65Na 65Np 65Np2 65Nr2 65Nr4 65Nm 66A 69B 73A 73Af 73C 73Cd 73D 73Df 73Dd 73D 73Eb 73H 73B 76Bb
 76Bf 76Bh 76D 76Dd 76Dg 80B 80Bc 80C 80D 80E

Common in the district, vernal, univoltine, inhabits in the steppe and woodlands.

581. *Lampides boeticus* (Linnaeus,1767) (Fig.31)

Synonym(s): *boeticus* Linnaeus,1767; *damoetes* Fabricius,1775; *coluteae* Fuessly,1775; *pisorum* Fourcroy,1785;
boedicus Borkhausen,1788; #*baeticus* Latreille,1809; *armeniensis* Gerhard,1886; *bagus* Distant,1886 Original Reference: *Papilio boeticus* Linnaeus,1767, Syst. Nat. (Edn.12) 1(2): 789. Type(s): Barbaria [Algeria]. Range (in code): Ae AF AL AM AZ Az Ba BE BG BH B-H BY CH CN Co Cr CY DE DK DZ EG ES FR GG
 GR HU IL IN IQ IR IT JO Kab Kbb KG KK KW LB Ld LY MA MK MN MT NL OM Pag PK Cp PT QA Rd RO RU SA Si
 SK Sm So Sr SW SY TJ TM TN TR UA AE UZ YE YU Cw Dv Smt H-W Sur Ssx Ken Cy Ao Mu18 Ci He Ket DsA Tls TrA Cp
 T-S Ab Ak B-A Bk Brz Bu By Es Fa Gh Gor Ha Hz Il Kaz Kd Kh Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Act Alc Alv Alm Atu
 Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv
 Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm PG Vu Dmp PH Ala Bab Bal Bat Bas Bil Boh Bon Bur Bus
 CagSul Cal Cam Cml CmM Cat Ceb Cts Cuy Din Dum Gui Hom Jol Ley Lub Luz Mar Mas Mdo Mno Neg Pal Pan Pao
 Pol Rom Sam Sar Sga Sia Sib Siq Sis Stu Tab MW Zom ZA Tva Lpo Spb Lj Mdk Kru Pma Pf Nta Kzu PtB Fre Gau Pre Jh
 Brn Mpu US Pa Hf TH CMa Cuo Cuo7 Cu12 Lmp Sgk Hyo PSu Nst Chw Ths Sya Bnk Kci MY Lkw IN Ass MM VN Hw SD
 SD91 SD119 Bgd Cc SO Zai Ad DZ Ah Agi Anna Orn Sbd Ges Ng Jla Lgh Kab Hr BlM ML Bgd 01 02 03 04 05 06 07 08
 09 10 12 13 14 15 16 17 20 21 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 42 44 45 46 47 48 49 50 51 52 53 56 58
 60 62 63 64 65 70 71 72 73 76 05A 06B 06C 06D 06F 06K 06Kb 06P 06R 06Rl 07B 07C 13A 13Ab 13Ae 13Af 13Ax 13F
 13G 13Ga 13Gb 13Gv 13Gw 21L 21Le 21N 21Nb 21O 23C 23Cc 23I 23Lb 23M 27C 27Cb 30B 30Bb 30Bk 30Bf 30D 30Dt
 31F 31B 31A 31L 31La 31K 32C 32D 33B 33C 33E 33H 36F 38P 40D 44E 46G 46Gf 46L 48A 48Ak 48L 49E
 49Ea 56B 56F 58G 58Gi 58Gj 62E 62F 63D 65A 65Ai 65Am 65Am2 65B 65Bk 65Bx 65D 65Dc 65Dl 65Dg 65Dn
 65E 65F 65Fc 65Fd 65Fe 65Fm 65Fg 65Fh 65Fj 65Fp 65Fz 65G 65Gb 65Ge 65K 65Kg 65Ks 65L 65Le 65N 65Nc 65Np
 65Nm 72E 72Ec 73C 73Ce 73D 73Df 76B 76Ba 76C

Common in the district, inhabits in the woodlands.

582. *Lycaena (Alciphronia) alciphron* (Rottemburg, 1775) (Fig.32)

Synonym(s): *alciphron* Rottemburg, 1775; *lampetie* [Denis & Schiffermüller], 1775; *hiere* Fabricius, 1787.

Original Reference: *Papilio alciphron* Rottemburg, 1775, Naturforscher 6: 11. Type(s): Deutschland:

Berlin. Range (in code): AL Cc AM Bn At Kts AT AZ Ba BG Bry BY CH CN Ui MN CZ DE DK EE ES Mu FR GG GR HU IQ IR Ab Ak Elb IT KG LT LV PL PT RO RU Si SK Sm So Sr TR T-S UA Uk VI YU KK Or Cb Ty Om Sp Tk Aa Rk Aq Tar Sau DsA Ket KuA TrA Nrk 01 02 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 19 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 42 43 44 46 49 50 51 53 56 58 60 61 62 65 66 69 71 72 73 74 76 80 03C 04D 04Db 05A 06B 06G 06K 06P 06R 06Rd 06V 12A 12Aa 12B 13A 13Ac 13Aç 13Ad 13Af 13Ax 13C 13Cl 13E 13Ea 13F 13G 13Ga 13Gv 13Gw 16R 21O 23D 23Dc 23I 23Ja 23Lb 23M 24B 24Bb 24G 24H 25F 25Fa 25Fc 29A 29F 30B 30Be2 30Bx 30Br 30D 30Df 30Du 31M 33H 36B 36D 36Dd 36E 36F 36Fb 36H 38G 38Ga 46F 46H 46Hc 49E 49Ea 49F 49Fd 56F 58C 58G 58Ga 62E 62F 65A 65Ac 65Ai 65B 65Bk 65Bo 65Bx 65D 65Dc 65Dd 65Daa 65Df 65Dg 65Dk 65Dm 65Do 65Doa 65Dp 65E 65Eb 65F 65Fe 65Fh 65Fj 65Fp 65Fz 65G 65Gm 65K 65Kb 65Kc 65Kö 65Kü 65Kg 65Kl 65Km 66A 69B 69Ba 72E 72Ec 72Ei 73C 73Cd 75A 75Ab 75Ac 75D 75E 75F 75Fa 76A 76Ab 76C 80B 80Bc

Common in the district, univoltine.

583. *Lycaena (Heodes) virgaureae* (Linnaeus, 1758)

(Fig.37)

(Map 11)

Synonym(s): *virgaureae* Linnaeus, 1758; *armeniaca* A. Bang-Haas, 1906; *chrysorhoas* Fruhstorfer, 1917; *balcanicola* Graves, 1928. Original Reference: *Papilio virgaureae* Linnaeus, 1758, Syst. Nat. (Edn.10): 1: 484.

Syntypes: Europa, Africa; [Sweden (Verity, 1943)]. Range (in code): AL AM TR Bn At Kts AT Aty Ba BE BG BY CH Cm CN CZ DE DK EE ES FI FR Cc GG IR Ab Qo GR HU IT Ju KG KK LT LU MK MN NL NO PL PT RO RU SE SK Sm So Sr St Tk UA Ui VI YU TeA Kuz DsA TrA T-S 01 03 04 05 06 08 11 13 14 16 18 24 25 26 29 30 32 33 36 37 42 43 46 51 53 58 60 62 65 66 69 75 76 04D 04Db 05A 06D 06E 06R 06Rd 13A 13Ac 13Ac1 13Ax 13F 13F7 13F71 13G 13Ga 13Gc 13Gv 25F 25Fc 25Fc 30D 30Dt 36D 36Db 36Dd 36F 36Fa 36Fb 36H 37V 46F 53N 65A 65At 65At1 65Au 65B 65Bk 65Bx 65D 65Dc 65Dl 65Do 65F 65Fc 65Fg 65Fh 65Fj 65Fq 65Ft 65Fu 65Fx 65Fp 65Fz 65G 65Ge 65Gp 65K 65Km 66A 75A 75Ab 75F 75Fa 76A 76Ab 76C 78D 78Da

Common in the district, univoltine, a woodland species.

584. *Lycaena (Loweia) tityrus* (Poda, 1761)

(Fig.38, 39)

Synonym(s): *tityrus* Poda, 1761; *acriion* [Brünnich], 1763; *orientalis* Staudinger, 1881; *argentifex* Balint, 1990.

Original Reference: *Papilio tityrus* Poda, 1761, Insecta Musei Graecensis: 77. Type(s): [Austria]: Graz. Range (in code): AF Ca AL Cc AM Bn At AT AZ Ba BE BG BY CH CZ DE DK EE ES FR GG GR HU IQ Hjo IR Ab Ak Msw Elb Th Ha IT LB LT LU LV MK NL PL PT RO RU SK Sm So Sr TR UA YU KG Tt Uk Aq Rk Ka Pw Om Sp Tk DsA Tar Lps CN Ui 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 01K 04D 05A 06A 06B 06D 06G 06H 06K 06P 06R 06Rd 06S 06V 06Z 12A 12Aa 13A 12Ai 13Ab 13Ax 13B 13Bg 13F 13G 13Ga 13Gv 13Gs 13Gü 13Gw 14I 14Ib 21K 21O 23I 23Ja 23Lb 23M 25F 25Fc 25Fc 27C 27Cb 30D 30Df 30Dh 30Dt 34K 36D 36F 39C 44F 44Fc 46F 46Fc 46G 46Gf 49E 49Fa 49F 49Fd 56F 58G 58Gj 58R 65A 65Ai 65Am 65Am1 65Am4 65At 65D 65Dc 65Dq 65Dk 65Dl 65Dr 65Dt 65E 65Eb 65Ec 65F 65Fh 65Fg 65Fe 65Fj 65Fu 65Fr 65Fq 65Fz 65G 65Gp 65Go 66A 73C 73Cd 78D 78Da 80A 80B 80Bc

Common in the district, bivoltine.

585. *Lycaena (Palaeochrysophanus) candens* (Herrich-Schäffer, [1845])

Synonym(s): *candens* Herrich-Schäffer, [1845] Original Reference: *Polyommatus candens* Herrich-Schäffer, [1845], Syst. Bearb. Schmett. Eur. 1: 133, figs. 240-243. Syntypes: [Türkei]: Brussa [Bursa, Uludagh]. Range (in code): AL Cc GG Akh Cbo GR IR Ab Elb Mz RO TR Arr YU BG B-H HV MK Ril 03 04 05 06 08 13 14 16 18 24 25 28 29 30 36 43 49 52 53 58 60 61 65 66 69 75 76 05A 06G 13A 13Ad 14I 14Ib 25F 25Fc 30B 30Ba 30Bb 30Bk 36D 36Db 36F 36Fb 49F 49Fd 60C 65A 65B 65Bk 65Bx 65D 65Dba 65F 65Fq 65Fü 65Fz 65G 65Ge 65Gv 65Gz 66A 69B 69Ba 75A 75Ab 75Ac 75D 75E 75F 75Fa 76A 76Ab 76C

Common in the district, univoltine.

586. *Lycaena (Thersamonia) asabinus* (Gerhard, [1850])

(Fig.33)

Synonym(s): #helius Herrich-Schäffer, [1851]; *asabinus* Herrich-Schäffer, [1852]. Original Reference: *Polyommatus asabinus* Gerhard, [1850], Versuch Monogr. eur. Schmett.: 3: 7, Taf.9 figs. 3a-c.

Type(s): [Türkei]: Amasya. Range (in code): Cc GG IQ Hjo IR Ab Jal Qba LB TR 01 03 04 05 07 08 12 13 21 23 24 25 30 32 33 36 42 44 46 47 50 51 52 56 58 62 65 70 73 01K 05A 12A 12Ab 13A 13Ab 13Ac 13Ax 13C 13Cd 13F 13G 13Gs 13Gü 13Gw 21O 25F 25Fa 30D 30Df 36D 36Da 44E 44Fc 44Fb 44L 46F 46Fc 46G 46H 46Fc 47B 56F 58G 58Gi 62E 62F 65A 65Am 65Am4 65At 65B 65Bk 65Bx 65D 65Dk 65Dl 65Dr 65Dt 65Gv 65Gz 65F 65Fç 65Fd 65Fj 65Fp 65Fr 65Fx 65Fz 65K 65Kb 65Kö 65Kz 65Kg 65L 65Le 65N 65Np 65Nr 65Nm 73A 73Ad 2

Common in the district, bivoltine.

587. *Lycaena (Thersamonia) kefersteinii* (Gerhard, [1850])

Synonym(s): *kefersteinii* Gerhard, [1850]; *phaeton* Freyer, [1850]; #ochimus Herrich-Schäffer, [1851]; *ochimus* Herrich-Schäffer, [1852]. Original Reference: *Polyommatus kefersteinii* Gerhard, [1850], Versuch Monogr. eur. Schmett.: 7, pl. 9 figs. 4a-c. Syntypes: Türkei [=Amasya]. Range (in code): He IL LB TR IQ Ssa Hjo IR Ab Khy Ak Sah Elb Th Cc GG Ru Smt Akh Sah Zj Mz 01 02 04 05 06 07 08 11 12 13 14 21 23 24 25 29 30 32 33 35 36 38 42 43 44 46 47 50 51 56 58 60 62 63 65 66 68 69 70 71 73 76 01K 02E 02Ec 04C 04D 04Da 05A 06Aa

06B 06K 06Kc 06P 06V 06Z 07A 07Ad 12B 13F 13G 13Gv 14I 14Lb 21O 23D 23Dc 23I 23Lb 25E 25F 25Fa 25Fb 29A 30B
30Bg 30Bk 33K 35S 35Sb 36D 36F 36Fb 38H 38Hc 44E 46F 46Fc 46G 46H 46Hc 56F 58C 58G 58Ga 58Gd 58Gi 58Gj
62F 65A 65Am 65Am4 65B 65Bk 65Bn 65Bn1 65Bo 65Bx 65G 65Gc 65Gf 65Gy 65Gn 65Gs 65D 65Dc 65Df 65Dk 65Dr
65Drb 65F 65Fc 65Fd 65Fe 65F1 65Fp 65Fr 65Fz 65G 65Gf 65Gg 65Gy 65K 65Kb 65Kc 65Kl 65Km 65Kö 65Ks 65Ku
65Ky 65Ky1 65Kz 65L 65Le 65M 65Md 65N 65Np 65Np2 65Nr7 65Nm 66P 66Pa 69B 70C 70Ca 72E 72Eg 72Eh 73C
73Cd 76B

Common in the district, bivoltine.

588. *Lycaena (Thersamonia) kurdistanicus* (Riley, 1921)

(Fig.34)

Synonym(s): *kurdistanica* Riley, 1921 Original Reference: *Heodes thersamon* ssp. *kurdistanica* Riley, 1921, Ann. Mag. nat. Hist. 8: 598. Syntypes: Iran: Harir, Karind Gorge and Kermanshah (BMNH). Range (in code): AF Hr BIM IR Ak Ab Sro Shf Jal Km IQ Hjo TR LB 13 30 49 56 65 72 73 13A 13Ab 13Ac 13Ac1 13Ai 13Ax 13F 13G 13Gv 13Gu 13Gü 13Gw 13Gç 30Bb 30Bb 30C 30Ce 30D 30Df 30Dg 30Dh 30Du 49F 49Fb 49Ff 56F 65A 65Am 65Am4 65As 65At 65B 65Bk 65Bx 65D 65Dç1 65Dd 65Dda 65Dg 65Dh 65Dk 65Dr 65Drb 65Dn 65F 65Fd 65Fe 65Fk 65Fc 65F3 65Fr 65Fq 65Fx 65Ft 65Fp 65Fr 65Fü 65Fz 65G 65Gb 65Ge 65Gp 65Gs 65Gv 65Gz 65K 65Kb 65Kc 65Kg 65Kl 65Km 65Ks 65Ku 65Ky 65Ky1 65N 65Nb 65Nr2 65Nr4 65Nm 65M 65Md 72F 73A

Common in the district, bivoltine.

589. *Lycaena (Thersamonia) thetis* (Klug, 1834)

(Fig.35)

Synonym(s): *thetis* Klug, 1834. Original Reference: *Lycaena thetis* Klug, 1834, [in] Ehrenberg, Symb. Phys. Ins. 4: pl. 40 figs. 17, 18. Syntypes: Syria. Range (in code): GR IQ IR Ab Sro Qba Elb Th LB Cc TR Arr 01 03 04 05 06 07 08 12 13 16 24 25 29 30 32 33 35 36 38 42 44 46 48 49 51 58 60 62 65 66 69 70 73 75 76 05A 06B 06R 06Ri 12E 12Ea 13A 13Aa 13Ac 13Ac1 13Ac2 13Ac3 13Ac 13Ax 13F 13F7 13F71 13G 13Gv 13Gu 24B 24Bb 24D 25F 25Fa 30B 30Bb 30Bk 30D 30Dh 30Du 30Dt 36D 36Db 36F 36Fb 36H 44O 44Od 46F 49F 49Fd 58G 58Gi 58Gg 65A 65Ac 65Ac2 65Ab 65Abb 65B 65Bk 65Bx 65D 65Dc 65G 65Ge 65Gl 65Gp 65F 65Fe 65Fm 65Fq 65Fc 65Fu 65Fx 65Fw 65Fe 65Fh 65Fz 65G 65Ge 65K 65Kb 65Kc 65Kg 65Kl 65Km 65Kö 69B 69Ba 70C 70Cb 75F 75Fa 76B 76C

Common in the district, univoltine.

590. *Lycaena* (s.str.) *phlaeas* (Linnaeus, 1761)

(Fig.36)

Synonym(s): *phlaeas* Linnaeus,1761; *virgaureae* Fourcroy,1785 nec Linn.,1758; *eleus* Fabricius,1798; *aestivus* Zeller,1850; *schmidtii* Gerhard,1853 Original Reference: *Papilio phlaeas* Linnaeus,1761, Fauna Suecica (2): 285. Type(s): Sweden, Westermannia. Range (in code): Ad Ae AF AL AM Ao As At AT Aty AZ Ba BE BG BY CH Cm CN Co Cr CY CZ DE DK EE ES FI FR GB GG GR HU IE IL IN IQ IR IT JO KG Kgs KK Kmt Ku LB Ld LT LU LV MK MN MT NL NO PK PL PT Rd RO RU SA Sa SE Si SK Sm So Sr SY Ti TJ Tk TM TR UA Ui Uk VI YE YU Cw Dv Smt Mu18 Bn Cy LY H-W Sur Ssx Ken MA DZ TN Pm Bik Ci Bl Ca Cp Sau Tar DsA Ax TrA KuA TeA Ket T-S Pes Mre Mus Krl JP US Cf UG ZR ET Md Mon Abt CA Msc Ab Ak B-A Bk Brz Bu By Es Fa Gh Gor Ha Hz Il Kaz Kd Kh Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Prj Us Pa Hf Sml Arr Act Acl Alv Alm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Hu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm US Aks Cf Cnt Col Dw Ge Id Ipd Iln Io Kan Knt Mai Mch Mis Mns Mon Mrl Msc NCa NDK NMx Neb Nh Nje Ny Oh Ok Org Pns RDi SDk Tnn Ut Vi Vr WVi Wc Wy Um Adu Bgd Cc Msw Qba Bhg Haz Rbt Ges Ng Jla Hr BLM 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 44 45 46 47 48 49 50 51 52 53 54 55 56 58 59 60 61 62 63 65 66 68 69 71 72 73 74 76 78 80 81 04D 04Db 05A 06B 06D 06G 06K 06P 06R 06Rd 06V 06Z 13A 13Ab 13Ac 13Ac1 13Af 13Ai 13Ax 13B 13Bg 13F 13F33 13G 13Ga 13Gö 13Gg 13Gv 13Gm 13Go 13Gs 13Gü 13Gy 13Gw 21L 21Le 21N 21Nb 23C 23Cc 23D 23Dc 23I 23Ia 23Ib 23E 23M 25F 25Fa 27C 27Cb 30B 30Bk 30D 30Df 30Dt 31A 31Aa 31C 31Cb 31F 31K 31Ka 31L 31La 31M 33A 33Ai 33K 35T 35Td 36D 36Db 36F 38H 38Hc 39C 44F 44Fb 44L 44Lc 45L 45La 46F 48A 48Aa 48Ak 48D 48F 48L 49E 49Fa 49F 49Gb 56F 58G 58Ga 58Gj 58Gi 60H 62F 63D 65A 65Ai 65Am 65G 65Au 65B 65Bn 65Bx 65D 65Dc 65Dk 65Dm 65Do 65Dr 65Drb 65Dt 65Dw 65E 65Eb 65Ec 65F 65Fd 65Fe 65Fg 65Fn 65Fl 65Fj 65F1 65Fq 65Fp 65F3 65Fu 65Ft 65Fx 65Fz 65G 65Ga 65Ge 65Gp 65Gn 65K 65Kl 65Km 65Kö 65Ks 65Kü 65Kw 65Ky 65Kyi 65N 65Nc 65Nr2 65Nm 66A 73C 73Cd 73D 73Da 73Db 73Df 75F 75Fa 76A 76Ac 76Ad 76B 76Be 76Bf 76Bj 76C 76D 76Db 78D 78Da 80B 80Bc

Common in the district, bivoltine.

591. *Plebejus (Kretania) carmon* (Gerhard, [1851])

(Fig.40)

Synonym(s): *carmon* Gerhard,[1851, November]; *euryipilus* Freyer,[1851, December]. Original Reference: *Lycaena carmon* Gerhard,[1851], Versuch Monogr. eur. Schmett. (7):15.nr.58, pl.25 figs.1a-c.

Syntypes: Türkei [=Amasya]. Range (in code): AM AZ Cc Arr GG Smt Akh GR Sms IL Pa IR LB RU Kr SY TR
 01 02 03 04 05 06 07 08 12 13 14 16 18 19 21 23 24 25 26 27 28 29 30 31 32 33 35 36 38 42 44 46 47 48 49 50 51 56 58 60
 62 63 64 65 66 69 70 71 72 73 74 76 79 01H 01K 04D 04Db 05A 06B 06C 06D 06K 06R 06Rd 06V 06Z 07A 07Al 13A
 13Ab 13Ac 13Ad 13Ae 13Af 13Ag 13Ah 13Ax 13B 13Ba 13C 13Cd 13Cf 13F 13G 13Gv 13Gw 21N 21Nb 21L 21Le 21O 23Cc 23I
 23Ja 23Lb 24E 24Ea 25F 25Fa 25Fb 25Fc 27B 27C 30A 30B 30Bb 30Bc2 30Bx 30Bk 30Br 30C 30D 30Df 30Dt 33O 35S
 35Sh 38C 38Ca 42D 42Dc 42H 42X 42xa 44E 44I 44L 44Lb 44Lc 44O 44Od 46G 46Fg 49E 49Ea 49F 49Fe 56B 56F 58C
 58G 58Gd 58Gi 63D 63H 63M 65A 65Ai 65Am 65Am2 65Am3 65B 65Bk 65Bx 65D 65Dc 65Dd 65Dda 65Df 65Dg
 65Di 65Do 65E 65Eb 65F 65Fc 65Fg 65Fi 65Hf 65Fe 65Fm 65Fj 65Fü 65Fp 65Fz 65G 65Gl 65Gp 65Gm 65Gu 65Gz
 65Gb 65K 65Kg 65Kb 65Kc 65Kl 65Kö 65Kü 65N 65Nb 65Np2 65Np5 65Np7 65Nr3 65Nr6 65Nm 66A 72E 72Eb 72Ec
 72Eh 72Ei 72Ek 73A 73C 73Cd 76C 76D 76Da 76Dc 79B 79Ba

Common in the district, univoltine.

592. *Plebejus (Lycaeides) idas* (Linnaeus, 1761)

Synonym(s): *idas* Linnaeus, 1761; *leodorus* Esper, 1782; *acreon* Fabricius, 1787; *amphion* Fabricius, 1793.
Original Reference: *Papilio idas* Linnaeus, 1761, Fauna Suecica (2): 284. Type(s): Suecia. Range (in code): T-S Ui Ku Cc AM Ao At AT Ba BE BG B-H BY CH Co CZ DE DK EE ES FI FR GG GR HU HV IT IR Ab Elb KG KK LB LT LV MK NL NO PL PT RO RU Sa SE Si SK Sm So Sr SS TR Arr UA Uk VI YU DsA TeA KuA TrA US Cf Col Id Mai McH Mns Mon Ne Org Ut Ws Wy 01 03 04 05 06 07 08 13 14 16 18 19 24 25 26 29 30 33 36 37 38 39C 42 44 46 49 51 52 53 58 62 65 66 67 69 70 73 74 76 01K 04Db 05A 06R 13G 13Gv 13Gw 25F 25Fb 30B 30Bb 30Bk 30D 30Dt 39C 46F 49E 49Ea 65A 65Ac 65Ac2 65Am 65Am2 65Bx 65D 65Dç 65F 65Fc 65Fe 65Fq 65Fz 65G 65Ge 66A 73A 73Ad 73Ad2 73C 73Cd 76C 76A 76Ab

Common in the district, univoltine.

593. *Plebejus (Plebejides) zephyrinus* (Christoph, 1884)

(Fig.41)

Synonym(s): *zephyrinus* Christoph, 1884 Original Reference: *Lycaena zephyrus* var. *zephyrinus* Christoph, 1884, [in] Romanoff, Mém. Lépid. 1: 102. Syntypes: [Turkmenistan]: Askhabad. Range (in code): TR Cc AZ Nv Ord GG IQ Ssa IR KG Kp TM Sau Mn Ak Ab Elb Mz Lo Fa Shr RU T-S Ax Fe UZ 13 30 56 65 72 73 76 13A 13Ag 13Ax 13B 13Ba 13Bg 13D 13Da 13E 13Ea 13G 13Ga 13Gv 13Gw 30A 30B 30Bb 30Bc2 30Bx 30Bg 30Bk 30D 30Dt 56F 65A 65Ai 65As 65At 65B 65Bk 65Bx 65D 65Dç 65Dd 65Do 65Df 65Dg 65Dj 65Dk 65Dl 65Dq 65Dp 65Dm 65G 65Ge 65Gt 65F 65Fb 65Fc 65Fd 65Fm 65Fg 65Fh 65Fe 65Fp 65Fq 65Fs 65Fz 65Fl 65K 65Kl 65Kz 65Kg 65Ky 65Ky1 65L 65Le 65N 65Np 65Np2 65Np5 65Np7 65Nr2 65Nr3 65Nm 72E 72Eh 76C 76D 76Da

Common in the district, univoltine.

594. *Plebejus (s.str.) argus* (Linnaeus, 1758)

(Fig.42)

Synonym(s): *argus* Linnaeus, 1758; *aegon* Denis & Schiffermüller, 1775; *plouharnelensis* Oberthür, 1926; *pulchraphilonome* Verity, 1931. Original Reference: *Papilio argus* Linnaeus, 1758, Syst. Nat. (Edn.10): 1: 483. Syntypes: Europa, Africa. Range (in code): AL Ao At Bn Kts AT Ba BE BG BY CH CN Co CZ DE DK EE ES Mu FI FR GB GR HU IT IR Elb Ab Ak IQ KG Ku LT LU LV NL NO PL PT RO RU Sa SE Si SK Sm So Sr TR Cc GG Smt Akh AZ AM UA Ua Vi Kml Uk VI Ya Yu Cw Dv Smt H-W Sur Ssx Ken Kuz Sli Sau Tar Mn Mgd KP KR JP Sh Us Arr Shf Khy AF Kab 01 03 04 05 06 07 08 10 13 14 16 17 18 22 24 25 26 28 29 30 32 33 34 36 37 38 39 41 42 43 46 49 50 51 52 53 54 55 58 59 60 62 65 66 67 69 70 73 75 76 78 04D 04Db 05A 06B 06C 06E 06G 06H 06R 06Rd 06V 06Z 13A 13Ac 13Ac1 13Ac2 13Ad 13Af 13Ag 13Ax 13F 13F1 13F7 13F71 13G 13Ga 13Gd 13Gv 13Gw 14I 14Ib 25F 25Fa 25Fc 30B 30Bb 30Bk 30D 36F 36Fb 38C 38Ca 38H 46F 46Fc 46Fg 49E 49Ea 49Ec 49Ef 49F 49Fd 58R 58Rb 65A 65Ac 65Ac 65Ac2 65Ac4 65Am 65Am2 65B 65Bc 65Bo 65Bx 65D 65Dç 65Dç1 65Df 65Do 65Doa 65F 65Fc 65Fe 65F1 65Fg 65Fh 65Fü 65Fq 65Fp 65Fs 65Fw 65Fz 65G 65Gb 65Gp 65Gv 65Gz 65H 65Ha 65K 65Kc 65Kg 65Kl 65Km 65Kö 65Kü 65Kş 66A 76C 76A 76B 76Bf 76Bh 76D 76Da 78D 78Da

Common in the district, univoltine.

595. *Polyommatus (Albulina (Plebejidea)) loewii* (Zeller, 1847)

(Fig.43)

Synonym(s): *loewii* Zeller, 1847; *empyrea* Gerhard, [1851]; *gigas* Staudinger, 1871; #*robusta* Turati & Fiori, 1930; *germaniae* Pfeiffer, 1932; *dzhegamati* Sheljuzhko, 1934. Original Reference: *Lycaena loewii* Zeller, 1847, Isis 1847: 9-10. Syntypes ♀♂: [Türkei]: Makri [Fethiye]. Range (in code): Nwf Ci Bl Chm Bm Kab AF Cc AM AZ EG GG Smt Akh GR IL IQ IR Ab Ak Msw Zj By Fa Elb Th JO Kc KG KK LB Nf Nj OM PK Rd RU SA SY TJ TM TR Ld Ng Hr Log Kab 01 02 03 04 05 06 07 08 12 13 14 15 18 21 24 25 26 27 29 30 32 33 35 36 37 38 40 42 43 44 46 47 48 49 50 51 53 56 58 60 62 63 65 66 69 70 71 72 73 75 76 78 80 01K 04D 05A 06C 06E 06G 06H 06K 13A 13Ac 13Ac1 13B 13C 13G 13Gb 13Gv 13Gç 13Gw 21O 25F 25Fa 25Fc 27C 27B 30A 30B 30Bc2 30Bx 30Bk 30Br 30D 30Df 30Dt 30Du 36F 36Fb 40D 43G 44E 44L 44Lc 44O 44Od 46F 48A 48Ak 48D 49A 49Aa 49E 49Ef 49F 49Fd 56F 58C 58G 58Ga 58Gi 58R 58Rb 63B 63D 63F 63H 63G 65A 65Ac 65Ac2 65Am 65Am2 65B 65Bk 65Bx 65D 65Dç 65Dç1 65Df 65Dg 65Dl 65Dlc 65Dp 65Do 65G 65Ge 65Gp 65Gl 65E 65Ea 65Eb 65F 65Fc 65Fg 65Fh 65Fj 65Fe 65Fn 65Fm 65Fp 65Fü 65Ft 65Fx 65Fc 65Fz 65K 65Kc 65Ké 65Kg 65Kl 65Kö 65Kü 65Kz 65L 65Le 65N 65Nb 65Np 65Np5 65Nr3 65Nr4 65Nm 66A 72E 72Eh 76C 76D 76Da 78D 78Da

Common in the district, univoltine.

596. *Polyommatus (Aricia (Eumedonia)) eumedon* (Esper, [1780])

(Figs. 44, 45)

Synonym(s): *chiron* Rottemburg, 1775 nec Fabr., 1775; *eumedon* Esper, [1780]; *osiris* O.Bang-Haas, 1927 nec Hopff., 1855; *rumeliensis* Eitschberger & Stein., 1975; *jeanensis* Eitschberger & Stein., 1975; *kagizmanensis* Koçak, 1980. Original Reference: *Papilio eumedon* Esper, [1780], Die Schmett. 1 (Bd.2) Forts. Tagschmett.: 16: pl.52, figs.2,3. Range (in code): AL Bn Kts At AT Aty Ba BG BY CH CN CZ DE EE ES FI FR Cc GG GR HU Ir IT KK KG Knt LB LT LV NO PK PL RO RU SE Si SK Sm So Sr TR T-S UA Ui YU Or Uk Bs Cb Kt Ty Kw Om Pw Sp Mn No Tk Aa Db Syr Tm Sau Tar Kuz Sli DsA Ket TeA KuA TrA Ax Bbu Ci Gg Nwf T-S IR Ab Sry Evl Arr 01 03 05 06 08 13 14 16 18 24 25 29 30 32 33 36 38 42 46 51 53 58 60 61 65 66 69 70 74 75 76 78 05A 06C 06D 06G 06R 13G 25F 25Fc 30B 30Bb 36F 46Fc 65A 65Ab 65Abb 65B 65Bk 65Bx 65D 65Da 65G 65Ge 65F 65Fc 65Fz 66A 70A 75F 75Fe 76C

Uncommon in the district, univoltine, alpine species.

597. *Polyommatus (Aricia (Ultraaricia)) crassipunctus* (Christoph, 1893)

(Fig.46) (Map 12)

Synonym(s): *crassipunctus* Christoph, 1893; #*crassipunctata* Seitz, 1909. Original Reference: *Lycaena anteros* var. *crassipuncta* Christoph, 1893, Dt. ent. Z., Iris 6: 86. Type(s): Armeniae rossicae

[Türkei]: [İğdir Pr.]: Kazikoparan. Range (in code): Cc AM IQ IR Ab Ak Nv Elb Th Es TR 08 13 21 24 25 30 36 38 44 46 53 62 65 76 80 13G 13Gt 25C 25Ca 30B 30Bb 30Bc2 30Bx 30Bk 30D 30Du 38C 38Ca 65A 65Ab 65Au 65B 65Bk 65Bx 65D 65Da 65G 65Gb 65Gd 65Ge 65Go 65Fq 65Fr 65Fu 65F1 65Fz 65K 65Kö 65Z 76B 76Bf 76Bh 76C
Uncommon in the district, univoltine.

598. *Polyommatus (Aricia (s.str.) agestis ([Denis & Schiffermüller],1775)*

Synonym(s): *medon* Hufnagel,1766 nec Linn.,1763; *alexis* Rottemburg,1775 nec Poda,1761; *agestis* [Denis & Schiffermüller],1775; *astrarche* Bergsträßer,[1779]. Original Reference: *Papilio agestis* [Denis & Schiffermüller],1775, Ankündung syst. Werkes Schmett, Wienergegend: 184. Type(s): [Austria]: Vienna district. Range (in code): AL AM Ao At AT AZ Ba BE BG B-H BY CH CN Co Cr CZ DE DK FR GB GG GR ES Mu HU HV IL IQ IR IT JO KG KK Ku LB LT LU MK MT NL PL Rd RO RU SE Si SK Sm So Sr SS SY Tk TM TR T-S UA Ui Uk VI YU Cw Dv Smt H-W Sur Ssx Ken LAT Wn Sau Tar DsA TrA Ax T-S PK Nwf Ci Mre Haz IN Kma Bl Sml Hp Ch CY Ab Sro Msw Qba Ak Elb Th Kp Fa Cc Arr AF Hr 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 41 42 44 45 46 47 48 49 50 51 54 55 56 58 60 61 62 63 65 66 68 69 70 71 72 73 75 76 78 81 01H 01G 01D 04D 04Db 05A 06A 06B 06C 06D 06G 06K 06N 06C 06R 06D 06S 06V 06Z 13A 13Ab 13Af 13Ax 13D 13Da 13E 13Ea 13F 13F35 13G 13Gö 13Gs 13Gw 21L 21Le 21Lf 21N 21Nb 21O 25F 25Fa 27C 27Cb 27D 27Db 27E 30A 30B 30Bk 30Br 30Bt1 30C 30D 30Df 31A 31Aa 31B 31L 31La 33K 33O 36F 36Fb 39C 44E 44F 44Fb 44L 44Lc 44T 45L 45La 46F 46Fc 46Fd 46G 46Gf 48A 48Ak 48Ad 48Ai 48F 49E 49Ea 49F 49Fb 56F 58C 58G 58Gi 63B 63Ba 63D 63E 63G 63M 65A 65Ah 65As 65At 65B 65Bk 65Bx 65D 65Dj 65Dg 65Dk 65Dq 65Dn 65Dr 65E 65Eb 65Ec 65Ed 65F 65Fd 65Fg 65Fh 65Fx 65Ft 65F1 65Fz 65Fc 65G 65Ga 65Gb 65Ge 65Gh 65K 65Kl 65Km 65Ku 65N 65Nç 65Ni 65Np 65Np8 65Nm 65Nn 66A 70C 70Cb 72E 72Eb 72Ei 73A 73Ad 73C 73Cd 73D 73Db 76A 76Ac 76E 76Ea 76D 76Da 76Dc 76Dg 78D 80C 80E 80G
Common in the district, bivoltine.

599. *Polyommatus (s.str. (Agrodiaetus (Actisia))) pseudactis (Forster,1960)*

Synonym(s): *pseudactis* Forster,1960 Original Reference: *Agrodiaetus actis* ssp. *pseudactis* Forster,1960, Z. Wien. ent. Ges. 45: 107-109, Taf.10 & 11 figs. 4 & 5. Holotype $\hat{\circ}$: Armenia, mts. Daralagez, pag. Martiros, ca.2000m. Range (in code): Cc AM Eri IR Gor Ab Khy IQ Ry TR Arr 01 03 04 08 24 25 29 30 31 36 38 42 44 46 49 50 51 58 62 65 66 69 76 30B 30Bd 30Bh 36D 44L 44Lc 46F 49E 49Ea 65A 65B 65Bk 65Bx 65D 65Dç 65Dg 65Dp 65G 65Ge 65Gf 65Gy 65F 65Fe 65Fj 65Ft 65Fz 65L 65Le 65N 65Np8 65Nr6 65Nm 66A 76C 76D 76Da

Common in the district, univoltine.

600. *Polyommatus (s.str. (Agrodiaetus (Admetusia))) eriwanensis (Forster,1960)*

Synonym(s): *eriwanensis* Forster,1960 Original Reference: *Agrodiaetus ripartii* ssp. *eriwanensis* Forster,1960, Ent. Z., Frankf. a. M. 70(3): 19-20. Holotype $\hat{\circ}$: [Armenia]: Eriwan (in ZSSM). Range (in code): Cc GG AM Eri Cc TR Arr IR Ab Slm 08 24 25 36 58 62 65 69 75 76 08H 24B 24G 25A 25R 36F 36Fb 36D 58N 62F 65A 65Am 65Am1 65Am2 65D 65Dp 69B 75A 75F 75Fa 76A 76Ab 76D 76Dg
Common in the district, univoltine.

601. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) igisizilim Koçak & Kemal,2001*

Synonym(s): *igisizilim* Koçak & Kemal,2001 Original Reference: *Polyommatus* (s.str. (*Agrodiaetus (Phyllisia)*)) *igisizilim* Koçak & Kemal,2001, Cent. ent. Stud., Misc. Pap. 78/79: 10. Holotype $\hat{\circ}$: Türkiye: Van: Bahçesaray, Karabel geçidi, 2700m (coll. Cesa). Range (in code): TR 65 65A 65Ab 65D 65Dç 65Dç1 65Dp 65Fw 65Fz
Uncommon in the district, univoltine.

602. *Polyommatus (s.str. (Agrodiaetus (Phyllisia))) iphigenia (Herrich-Schäffer,[1847])*

Synonym(s): *iphigenia* Herrich-Schäffer,[1847] Original Reference: *Lycaena iphigenia* Herrich-Schäffer,[1847], Syst. Bearb. Schmett. Eur. 1: pl.73, fig.354; [1851], ibid.6:24. Syntypes: Türkiye: [Bursa, Uludağ]. Range (in code): IR Ab Qo GR TR Arr AM Cc IR Ab 01 03 04 05 06 07 08 13 14 16 24 25 29 30 32 33 36 37 38 42 44 48 51 53 58 60 62 65 66 69 70 76 78 04D 04Db 05A 06G 06H 06Z 13G 13Gv 13Gw 14I 14Ib 24L 25F 25Fa 30B 30Bc 30Bc2 30Bx 30Bd 30Bh 30Bj 46F 48D 62E 65A 65Ac 65Ac1 65Am 65Am2 65B 65Bk 65Bx 65D 65Dç 65Dç1 65G 65Gd 65Ge 65Fg 65F1 65Fq 65Fr 65Fs 65Fz 66A 76C 78D 78Da
Uncommon in the district, univoltine.

603. *Polyommatus (s.str. (Agrodiaetus (Transcaspius))) anticarmon (Koçak,1983)*

Synonym(s): *anticarmon* Koçak,1983; *charmieuxi* Pagés,1994 Original Reference: *Agrodiaetus anticarmon* Koçak,1983, Priamus 3 (1): 34-35. Holotype $\hat{\circ}$: East Turkey: [Hakkari Prov., Şemdinli] (in coll.Cesa). Range (in code): TR 13 25 30 65 13G 13Gb 30B 30Bc 30Bx 30Bd 30Bh 30Bj 30C 30Cd 65A 65Am 65Am2 65D 65Dç 65Dç1 65F 65Fq 65Fc 65Fz
Uncommon in the district, univoltine.

604. *Polyommatus (s.str. (Agrodiaetus (Transcaspius)) zapvadi (Carbonell,1993)*

Synonym(s): *zapvadi* Carbonell,1993 Original Reference: *Agrodiaetus elbursica* ssp. *zapvadi* Carbonell,1993, Linneana Belgica 14 (2): 94-103, fig.H, Taf.2 figs.1-3. Holotype ♂: Turquie: Van: Güzelsu 2100m (MHNP). Range (in code): TR IQ 13 30 65 13G 13Ga 13Gv 30B 30Be 30Bd 30Bh 30Bj 65A 65Am 65Am2 65Bx 65D 65G 65Gd 65Ge 65F 65Fg
Uncommon in the district, univoltine.

605. *Polyommatus (s.str. (Cyaniris)) antiochenus (Lederer,1861)*

(**Figs. 48, 49**) (**Map 13**)

Synonym(s): *antiochena* Lederer,1861 Original Reference: *Lycaena antiochena* Lederer,1861, Wien. ent. Monatschr. 5 (5): 148, Taf. 1 figs. 2,3. Syntypes: Antiochia. Range (in code): He IL Pa LB SY TR 01 13 21 27 30 31 33 46 49 56 65 73 80 01H 01L 01Lb 13F 13G 13Gt 21L 21Lf 21Ld 21N 21Nb 27C 30B 30Bb 30Bc2 30Bx 30Bk 30D 30Df 31A 31Aa 31Cb 31F 31Fb 31L 31La 31M 33A 33K 46F 46Fc 46H 46Hc 49F 49Fb 49Ff 56D 56Db 56Dg 56F 65A 65Ai 65Am 65Am2 65D 65Dn 65Do 65Dq 65Ds 65Dt 65Dv 73D 73Df 80C
Uncommon in the district, univoltine, locally found in the woodlands.

606. *Polyommatus (s.str. (Cyaniris)) bellis (Freyer,[1842])* (**Fig.47**) (**Map 14**)

Synonym(s): *bellis* Freyer,[1842] Original Reference: *Lycaena bellis* Freyer,[1842], Neuere Beitr. Schmett. 5: 26, Taf.398, figs.1,2. Type(s): Türkei. Lectotype ♂: Suburbs of Istanbul (designated by Balint,1999, Neue ent. Nachr. 46: 18-19) (BMNH). Range (in code): AM GG Cc IR Ab Ak Elb Th Gor Se TR SY LB IQ He IL Pa 01 03 04 05 06 07 08 10 12 13 14 16 17 18 19 23 24 25 27 28 29 30 32 33 34 36 37 38 39 42 44 46 49 50 51 52 53 56 58 59 60 61 62 65 66 69 70 71 74 75 76 80 01L 01Lb 04D 04Db 05A 06A 06B 06C 06D 06G 06K 06P 06R 06Rd 06V 13A 13Ab 13Ax 13D 13Da 13G 27C 30D 30Df 44A 44Ab 46F 46Fc 49E 49Ea 56F 65A 65Am 65Am2 65Am3 65B 65Bk 65Bx 65D 65Dc 65Dd 65Df 65Dg 65Dn 65Do 65Dt 65Dv 65G 65Gd 65Ge 65Gv 65Gz 65F 65Fd 65Fe 65F3 65Fm 65Fw 65Fz 65K 65Kö 65Kg 65M 65Mc 66A 75F 76C
Uncommon in the district, univoltine.

607. *Polyommatus (s.str. (Lysandra)) bellargus (Rottemburg,1775)* (**Figs. 50, 51**)

Synonym(s): *bellargus* Rottemburg,1775; *thetis* Rottemburg,1775 nec *Dru.*,1773; *adonis* Denis & Schiffermüller,[1775]; *salacia* Bergsträßer,1779; *venilia* Bergsträßer,1779;; *hyacinthus* Lewin,1795; *urania* Gerhard,[1851]; *perse magna* Verity,1937; *arentissima* Verity,1937; *arens* Verity,1937; *arentior* Verity,1937; *antearentior* Verity,1937; *parabellargus* Verity,1939; *shakla* Higgins,1958 Original Reference: *Papilio bellargus* Rottemburg,1775, Naturforscher 6:25. Type(s): Deutschland. Range (in code): AL AM AT AZ Cc Arr BG B-H BL BY CH CZ DE EE ES Mu Mu18 FR GB GG GR HU HV IQ Hjo IR Ab LB IT LT LU LV MK PL PT RO RU Si SK Sm So Sr SS TR UA VI YU Cw Dv Smt H-W Sur Ssx Ken 01 02 03 04 05 06 07 08 11 12 13 14 15 16 18 19 20 21 23 24 25 26 27 28 29 30 32 33 34 36 37 38 39 41 42 43 44 46 49 50 51 52 53 55 56 58 60 61 62 65 66 68 69 70 71 72 73 74 75 76 78 80 04D 04Db 05A 06B 06G 06H 06K 06N 06P 06R 06Rd 06V 06Z 13C 13Cd 13D 13Da 13E 13Ea 13F 14I 14lb 21K 21B 21Bb 21O 25F 25Fa 25Fc 30B 30Br 30D 30Df 33K 33O 36F 36Fc 38H 38He 44A 44Ab 44E 44Ei 44O 44Oc 46F 46Fc 46Fd 49F 49Fb 49Fc 49Ff 56F 65A 65Ai 65Ao 65Am 65Am4 65B 65Bk 65Bx 65D 65Di 65Dh 65Dk 65Dr 65Drb 65Dq 65F 65Fe 65Fg 65Fh 65Fj 65Ft 65Fm 65Fp 65Fz 65Ft 65Fu 65Fx 65F3 65G 65Gd 65Ge 65H 65Ha 65K 65Ka 65Kl 65Kö 65L 65Le 65N 65Np 65Nm 66A 73A 75F 75Fi 76A 76Ac 76C 76D 76Dd
Common in the district, bivoltine.

608. *Polyommatus (s.str. (Lysandra)) corydonius (Herrich-Schäffer,[1852])*

Synonym(s): *corydonius* Herrich-Schäffer,[1852] Original Reference: *Lycaena corydonius* Herrich-Schäffer,[1852], Syst. Bearb. Schmett. Eur. 6: 27, ibidem 1: pl.123 figs.595-596. Syntypes: Türkei; Südrussland. Neotype ♂: [Azerbaijan]: Helenendorf, designated by Schurian (1988: 139) (NHMW). Range (in code): Cc AZ RU TR GG AM IR Ak Ab 04 08 12 13 23 24 25 29 36 49 58 62 65 69 73 75 76 04D 04Db 12A 12Ab 13G 13Gw 23I 23M 25F 25Fa 25Fc 25Fb 25Fc 49F 49Fd 58F 62E 62G 65A 65Ac 65Ac2 65B 65Bk 65Bx 65D 65Dc 65G 65F 65Fc 65F1 65Fr 65Fq 65Fz 65G 65Gd 65Gp 65Ge 65K 65Kb 65Kc 65Kl 65Km 65Kö 65Kg 65Kw 65N 65Nr4 65Nm 73A 73Ag 73C 73Cd 75D 75F 76C 76D
Uncommon in the district, univoltine.

609. *Polyommatus (s.str. (Meleageria)) daphnis ([Denis & Schiffermüller],1775)* (**Fig.52**)

Synonym(s): *daphnis* [Denis & Schiffermüller],1775; *endymion* [Denis & Schiffermüller],1775 nec *Fabricius*,1775; *meleager* Esper,1778; *dalmatina* Wagner,1909. Original Reference: *Papilio daphnis* [Denis & Schiff.],1775, Ankündung syst. Werkes Schmett. Wienergegend: 182. Type(s): [Austria]: Vienna district. Range (in code): Aq Sms AL Cc AM AT AZ Ba BG B-H BY CH CZ DE ES FR GG GR HU HV Zad IQ IR Ab Ak Mrd Qba Sro Lo Ha Elb Th Gor IT KG LB MK PL RO RU Si SK Sm So Sr SS SY TR UA VI YU LAT Wn 01 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 20 21 23 24 25 26 29 30 31 32 33 34 35 36 38 39 40 42 43 44 46 48 49 50 51 53 56 58 60 62 65 66 68 69 70 71 73 74 75 76 78 04D 04Db 05A 06B 06C 06D 06E 06F 06N 06R 06Rd 06V 06Z 13A 13Ab 13Ax 13D 13G 13Gv 13Gw 14I 14lb 21K 24E 24Fa 30B 30Ba 30Bc 30Bx 30Bj 30Bd 30Bh 30Bf 30Br 30C 30D 30Da 30Db 30Dt 31M 34C 36F 36Fc 44E 44Ei 44F 44Fc 46F 46L 49E 49Ea 56F 58G 58Gj 58Gi 58Gk 58R 58Rb 65A 65Am 65Am2 65Ac 65Ac2 65B 65Bk 65Bx 65D 65Dc 65Dq 65Df 65Dg 65Dp 65K 65Kb 65G 65Gd 65Ge 65Gm 65Gn 65Gs 65Go 65Gp 65F 65Fc

65Fç 65Fg 65Fh 65Fe 65Fq 65Fj 65Fı 65Fp 65Ft 65Fü 65Fu 65Fr 65Fz 65K 65Kc 65Ké 65Kl 65Km 65Kö 65Kü 65Kz
 65Kğ 65Kw 65L 65Le 65N 65Np 65Np5 65Nr2 65Nr4 65Nm 75F 76C 76D 76Da
 Uncommon in the district, univoltine.

610. *Polyommatus (s.str. (Neolysandra)) fatima* Eckweiler & Schurian, 1980 (Figs. 54-56)

Synonym(s): *fatima* Eckweiler & Schurian, 1980 Original Reference: *Neolysandra coelestina* ssp. *fatima* Eckweiler & Schurian, 1980, Atalanta 11 (1): 72, Abb. 4, 5. Holotype ♂: Türkei: Hakkari, Bercelem Yaylası 2500-2800m. [paratypes 129♂♂ 75♀♀] (in coll. Eckweiler). Range (in code): TR IR Ab Sil 30 65 30B 30Ba 30Bb 30Bc 30Bx 30Be 30Bk 30D 30Df 30Dt 65A 65Ab 65Abc 65Am 65Am1 65B 65Bk 65Bx 65D 65Do 65G 65Ge 65I 65lb

Uncommon in the district, univoltine.

611. *Polyommatus (s.str. (Neolysandra)) ponticus* (Courvoisier, 1911) (Fig. 57)

Synonym(s): *ponticus* Courvoisier, 1911 Original Reference: *Lycaena pontica* Courvoisier, 1911, Dt. ent. Z., Iris 25: 107, pl. 2 f. 12. Type ♂: [Turquie]: Amasia (in NHMB) Range (in code): TR 01 05 06 07 12 28 38 42 46 49 52 58 65 05A 06D 06E 06R 12A 12Ab 46F 46Fg 49E 49Ea 65A 65Ai 65As 65At 65At1 65D 65Dc 65Dz 65Dza 65Fz

Uncommon in the district, univoltine.

612. *Polyommatus (s.str. (Plebicula)) amandus* (Schneider, 1792) (Fig. 53)

Synonym(s): *icarius* Esper, 1789 nec Rottemburg, 1775; *amandus* Schneider, 1792 Original Reference: *Papilio amandus* Schneider, 1792, Neuestes Mag. 4: 428. Type(s): Sweden. Range (in code): Lsb Bn At AL AM AT AZ Ba BG BY Cc CH CN CZ DE DK EE ES FI FR GG GR HU IQ Ssa IR Ak Ab Jal Elb Th IT KG KK LB LT LV NO PL RU SE Si SK Sm So Sr Tk TR T-S UA Ui Uk VI YU Aq Cb Bs Or Kg Pp Kw Ty Pw Om No Mn Sp Tk Aa Db Ax Kuz Sli Sau Tar Dsa TrA TeA T-S 01 02 03 04 05 06 07 08 10 13 14 16 17 18 19 21 23 24 25 27 28 29 30 31 32 33 34 35 36 38 42 44 46 47 48 49 50 51 52 53 56 58 60 62 65 66 69 70 71 72 73 74 75 76 78 80 05A 06B 06G 06K 06R 06Rd 06V 06Z 13F 13G 13Gç 13Gt 13Gv 14I 14Ib 24E 24Ea 27C 30A 30Aa 30B 30Ba 30Bc 30Bx 30Bd 30Bf 30Bg 30Bk 30Bj 30C 30Cd 30Ce 30D 30Da 30Db 30De 30Dk 30Dt 31A 31Aa 31L 31La 33K 36F 36Fb 38H 38He 44A 44Aa 46F 46G 46Ge 49E 49Ea 56F 65A 65Ai 65At 65Am 65Am2 65Am3 65B 65Bk 65Bx 65D 65Dc 65Dda 65Df 65Dn 65Dt 65G 65Gd 65Ge 65Gv 65Gz 65F 65Fb 65Fç 65Fe 65Fn 65Fz 65G 65Ge 65K 65Kl 65L 65Le 65N 65Np 65Nm 66A 72E 72Ej 75F 76C 78D 78Da

Common in the district, univoltine.

613. *Polyommatus (s.str. (Thersitesia)) thersites* (Canterer, [1835]) (Fig. 58)

Synonym(s): *thersites* Canterer, [1835]; *chapmani* Ball, 1914; *meridiana* Verity, 1919. Original Reference: *Argus thersites* Canterer, [1835], Hist. nat. Lép. Rhop. Pap. diurn. Dép...: 53, pl. 11, figs. 1, 2.

Syntypes: NW. France: Vosges, etc. Range (in code): Cc AZ Sms Kos AL AT Ba BE B-H BY CH CZ DE ES Mu FR GR HU HV IR Ak Ab Qba Elb Th IT KG KK LB MA MK MN PL PT Rd RO RU SK Sm So Sr SS SY TM TR UA YU TrA TeA T-S DsA Tar Sau Sj GG Tbl MA Azr Ifr 01 02 03 06 07 08 09 10 11 13 14 15 16 17 18 19 20 21 22 23 24 25 26 29 30 31 32 33 34 35 36 38 39 40 42 43 44 46 48 49 50 51 52 54 58 59 60 62 64 65 66 68 69 70 71 74 75 76 78 81 06A 06B 06C 06D 06G 06H 06K 06N 06P 06R 06S 06V 06Z 13A 13Ab 13Ae 13Ax 13B 13Bg 13G 13Gv 13Gw 30B 30Bk 30D 31A 31Aa 31L 31La 31B 31F 36F 36Fb 38H 38He 39C 44A 44Ab 44O 44Oi 46F 46G 46Gf 49E 49Ea 58G 58Gj 58Gk 58Gi 58R 58Rb 65A 65B 65Bk 65Bx 65D 65Dc 65Dd 65Dda 65Dg 65E 65Ea 65G 65Gd 65Ge 65Go 65Gp 65Gm 65Gq 65F 65Fç 65Fg 65Fh 65Fe 65Fj 65Fx 65Fz 65G 65Gb 65Ge 65K 65Kc 65Kç 65Kg 65Kl 65L 65Le 65N 65Np 65Np5 65Nr6 65Ns1 65Nm 66A 76B 76Bf 76Bh 76D 76Da 76Dg 76E 76Ea

Common in the district, bivoltine.

614. *Polyommatus (s.str.) buzulmavi* Carbonell, 1991

Synonym(s): *buzulmavi* Carbonell, 1991 Original Reference: *Polyommatus buzulmavi* Carbonell, 1991, Linneana Belg. 13 (4): 223, pls. 1, 2, 4. Holotype ♂: Turquie: Hakkari, Dez, 1400-2200m (MHNP). Range (in code): TR 30 65 30B 30Bc 30Bc2 30Bc4 30Bx 65A 65Am 65Am2 65Ac 65Ac2 65B 65Bn 65Bn1 65D 65Dç 65Fz

Uncommon in the district, univoltine.

615. *Polyommatus (s.str.) icarus* (Rottemburg, 1775)

Synonym(s): *argus* Poda, 1761 nec Linn., 1758; *alexis* Scopoli, 1763 nec Pda, 1761; *thetis* Esper, 1777 nec Dru., 1773; *icarus* Rottemburg, 1775; *pampholyge* Bergsträßer, 1779; *candybus* Bergsträßer, 1779; *candiope* Bergsträßer, 1779; *candaon* Bergsträßer, 1779; *oceanus* Bergsträßer, 1779; *fusciolus* Fourcroy, 1785; *icarinus* Scriba, 1795; *pusillus* Gerhard, 1851; *celina* Austaut, 1879; *neglectus* Stradomsky & Arzanov, 1999 Original Reference: *Papilio icarus* Rottemburg, 1775, Naturforscher 6: 21. Type(s): Saxonia. Range (in code): Ae AF AL Ao AT Ba BE BG B-H BY CH CN Co Cr CY CZ DE DK DZ EE ES FI FR GB GR HU HV IE Ii IL IQ IR IT JO KG KK Ku LB LT LU LV MA MK MN MT NL NO PK PL PT Rd RO RU Sa SE Si SK Sm So Sr SS SY TJ TM TN TR T-S Tv UA Ui Uk Us UZ VI YU Cw Dv Smt H-W Sur Ssx Ken Hjo Da Der AZ Bak Mu Mu18 Bn At Kts Sau Tar Buc Bkb Mrk Ssn Ktm Nym Sb DsA TrA KuA TeA Ax Ii Kuz Sli Bl Ci Nwf Kmt Sju Prj Pa Hf Cc Kc Pe Ir Irk Bc Arr Ab Sro Jal Shf Msw Swa Sgl Mdy Btma Nra Abe Sbd Lbs Ges MA Tgr Rbt Azr LY Cy Hr BLM Ng Kab Ca 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64

65 66 67 68 69 70 71 72 73 75 76 78 80 81 01A 01C 01H 01G 01F 01K 04D 04Db 05A 06A 06B 06C 06D 06E 06G 06H 06K 06N 06P 06R 06V 06Z 12A 12Ai 13A 13Ab 13Ad 13Af 13Ax 13B 13Ba 13Bg 13D 13Da 13E 13F 13G 13Ga 13Gç 13Gv 13Gü 13Gy 13Gw 14I 14Lb 18F 21L 21Le 21N 21Nb 21O 27C 27Cb 27D 27Db 27Dd 30B 30Bb 30Bk 30Br 30D 30Df 31A 31Aa 31A 31B 31E 31F 31L 31La 31K 31Ka 33A 33C 33K 33O 36F 36Fb 38H 38Hc 39C 44E 44Ei 44L 44Lc 44O 44Oc 45L 45La 46G 46Gf 46E 46Eb 46F 48A 48Aa 48Ad 48D 48F 48L 49E 49Ea 49Ed 49F 49Fb 49Ff 56F 56Fc 56F1 58G 58Gj 58Gi 58Gk 58R 58Rb 63B 63Ba 63D 63E 65A 65Ai 65Ag 65As 65Am2 65Ac 65Ac2 65B 65Bk 65Bx 65D 65Dd 65Dda 65Dj 65Dk 65Dr 65Drb 65Dm 65Do 65Dn 65E 65Ea 65Eb 65F 65Fc 65Fg 65Fe 65Fh 65Fj 65Fl 65Fm 65Fq 65Fr 65Fü 65Fu 65Fx 65F1 65Fw 65Fz 65G 65Ga 65Gb 65Ge 65Gd 65Gm 65Gn 65H 65Ha 65K 65Ka 65Kb 65Kc 65Kg 65Kl 65Ks 65Kş 65Kö 65Ku 65Ky 65Ky1 65L 65Le 65M 65Mc 65Md 65N 65Ne 65Np 65Np2 65Np4 65Np7 65Nr3 65Ns 65Nm 66A 72E 72Eb 72F 73A 73Ad 73Ad2 73D 73Db 73Df 73E 73Eb 73H 75F 75Fl 76A 76Ac 76B 76Ba 76Bf 76Bh 76C 76D 76Da 76Dg 76E 76Ea 78D 78Da 80B 80Bd 80C 80E

Common in the district, bivoltine.

616. *Pseudophilotes vicrama* (Moore,1865) (Fig.59)

Synonym(s): *vicrama* Moore,1865 Original Reference: *Polyommatus vicrama* Moore,1865, Proc. zool. Soc. London 35: 505, pl.31, fig.6. Syntypes: Tibet: Shipkee; [India]: Middle Kunawur: Cheeni.

Range (in code): AF Ng Kab Jla AL At Bn AT Ba BG BY CY Ch Ci CN Cr CZ DE EE FI GR HU Ii IN IR Ab Ak Shf Elb Fa Kp IL Pa JO IQ Ssa IT KG Ld LT LV PK PL RO RU SK Sm So Sr Ti TM TR Cc GG Smt Akh UA Ui VI YU Uk Kt Ka Sp Sau Tar DsA TrA Db Syr Tm Ku T-S 01 03 04 05 06 07 08 11 12 13 14 15 16 17 18 19 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 38 39 42 43 44 45 46 47 48 49 50 51 56 58 60 62 63 64 65 66 67 68 69 70 71 72 73 74 76 78 80 01K 05A 06B 06G 06K 06P 06R 06S 06V 06Z 07A 07B 07Bc 13F 13G 13Ga 13Gö 13Gç 13Gv 23I 23Ia 23Ib 23D 27C 30B 30D 30Dt 31A 31Aa 31L 31La 33A 33C 33O 35T 36F 36Fb 44L 44Lc 45L 45La 46F 46Fc 46G 46Gf 49F 49Fb 56F 58G 58Ga 58Gi 58R 58Rb 63D 63E 65A 65Am 65Am2 65Am3 65B 65Bk 65Bx 65D 65Dc 65Dç 65Df 65Do 65F 65Fb 65Fd 65Fb 65Fc 65Fd 65Fe 65Fg 65Fl 65Fh 65Fq 65G 65Gb 65Ge 65K 65Kl 65Ky 65Kz 65Kg 65L 65Le 65N 65Np 65Nm 66A 72E 72Eb 72F 73A 73Ad 73Ad2 73D 73Db 73Df 73E 73Eb 73H 75F 75Fl 76A 76Ac 76B 76Ba 76Bf 76Bh 76C 76D 76Da 76Dg 76E 76Ea 78D 78Da 80B 80Bd 80C 80E

Uncommon in the district, univoltine.

617. *Quercusia quercus* (Linnaeus,1758) (Fig.60)

Synonym(s): *quercus* Linnaeus,1758; *longicauda* Riley,1921 Original Reference: *Papilio quercus* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 482. Type(s): [England (Verity,1943)]. Range (in code): AL AM Ao AT AZ Cc Len Ba BE BG B-H BY CH Cr CY CZ DE DK DZ EE ES FI FR GB GG GR HU HV IE IQ IR Fa IT KG LB Le LT LU LV MA MK NL NO PL PT Rd RO RU Sa Sms SE Si SK Sm So Sr SS TR UA Uk VI YU Cw Dv Smt H-W Sur Ssx Ken SY Alv Atu Av Bad Bar Bgs C-M Cas Ccs Krd Da Der Cor Dja Cue Ct Gna Gp Gu Hue Lda Leo Mdr Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Ter Tol Trg Val Vcl Zg Zm Akh Ab Rf 01 03 05 06 07 08 09 10 11 12 13 14 16 17 18 21 22 23 25 28 29 30 32 33 34 35 38 39 42 43 44 45 46 49 52 56 58 60 62 64 65 66 71 73 74 01K 05A 06B 06D 06R 06S 06V 12A 12Ab 12E 12Eb 13F 21N 21Nb 23I 30B 30Bf 30D 30Db 30Df 38H 38Hc 49E 49Ea 56F 61K 62E 62G 65A 65Ai 65D 65Dl 65Dlc 66A 73A 73Ad 73Ad2 73D 73Dg 75F 75Ff 65Dg 65Dk 65Dm 65Dn 65F 65Fb 65Fc 65Fç 65Fz 65K 65Kb 65Kç 65Kd 65Kg 65N 65Np 65Nm 73D 73Dg

Uncommon in the district, univoltine, woodland species.

618. *Rubrapterus bavius* (Eversmann,1832) (Fig.61)

Synonym(s): *bavius* Eversmann,1832 Original Reference: *Lycaena bavius* Eversmann,1832, Nouv. Mém. Soc. imp. Nat. Moscou 2: 349-350. figs.3,4. Syntypes: [Russia]: Baschkiriae. Range (in code): Ba Ce Cm GR HU IL Pa Hf IR Ab Elb Mz KG LB MK RO RU Sm Sr SY TR Cc UA Uk VI 01 05 06 07 08 09 13 14 16 17 21 23 24 27 28 30 31 32 33 34 35 38 41 42 44 46 47 48 51 58 60 62 63 65 69 70 71 73 80 05A 06C 06G 06K 06N 06P 06R 06S 06V 13F 13G 23M 30B 30Bc 30Bx 30D 30Df 31M 33C 33O 38H 38Hc 44E 46G 46Gf 47B 58G 58Ga 58Gç 58Gi 62E 62Eb 62H 63N 63Na 65A 65Am 65Am4 65D 65Dç 65

Common in the district, univoltine.

619. *Satyrium (Nordmannia) abdominalis* (Gerhard,[1850]) (Fig.62)

Synonym(s): *abdominalis* Gerhard,[1850]; *gerhardi* Staudinger,[1895]; *alboabdominalis* Pfeiffer,1938; *persica* Riley,1939; #*gerhardtii* Wiltshire,1943; *elta* Higgins,1964. Original Reference: *Thecla abdominalis* Gerhard, [1850], Versuch Monogr. eur. Schmett.: 4, Pl. 4 figs. 3a-c. Syntypes: [Aserbaidjan]: Elisabethpol [=Kirovabad]. Range (in code): He IL AM Cc AZ GG IQ IR Elb Ab Khy Ak Fa Ke LB TR 02 05 06 07 08 12 13 17 18 19 21 23 24 25 27 29 30 31 32 33 35 36 38 42 44 46 47 49 50 51 52 56 58 60 62 63 65 66 69 70 71 72 73 76 80 05A 06K 13C 13Cd 13G 13Ga 13Gd 13Gv 13Gw 21N 21Nb 21O 23D 24E 24Ea 27C 30B 30Bc2 30Bx 30Bz 30Br 30D 30Db 30Df 31L 31La 36D 36Fb 44L 44Lb 46F 46G 47D 56B 56F 58C 58G 58Ga 58Gi 62E 62G 63E 65A 65Ac 65Ai 65Au 65D 65Dd 65Df 65Dm 65Dp 65Dv 65Dt 65Dn 65Ds 65F 65Fc 65Fç 65Fz 65K 65Kb 65Kç 65Kd 65Kg 65G 65Gb 65K 65Kl 65Kö 65Kü 70C 70Cb 72E 72Eb 73D 73Df 76C 80B 80Bc

Common in the district, univoltine.

620. *Satyrium (Nordmannia) armenum* (Rebel,1901) (Fig.63)

Synonym(s): *armenum* Rebel,1901 Original Reference: *Thecla myrtale* var. *armena* Rebel,1901, Annln naturh. Mus. Wien 16: 165-166. Syntypes: [Türkei]: [İğdır Prov.]: "Kasikoparan". Range (in code): TR Cc 04 08 13 24 25 30 36 49 62 65 69 76 13G 13Ga 13Gc 13Gw 30D 30Df 30Dh 36D 36Dd 49E 49Ea 62G 65A 65Au 65D 65Dx 65F 65Fc 65Fd 65Fj 65L 69B 69Ba 76C

Uncommon in the district, univoltine.

621. *Satyrium (Strymonidia) spini* (Fabricius, 1787)

Synonym(s): #spini [Denis & Schiffermüller], 1775; lynceus Esper, [1779] nec Drury, 1773; spini Fabricius, 1787; cerasi Herbst, 1804 nec Fabricius, 1787; #albosparsa Oberthür, 1910; anatolicus De Lattin, 1950. Original Reference: *Papilio spini* Fabricius, 1787, Mant. Ins. 2: 68. Syntypes: Germania. Range (in code): AF AL AM AT AZ Ba BE BG BY CH CZ DE ES FR GG GR HU IQ IR Ab Ak Elb IT KG Kp LB Le LT LU PL PT RO RU SK Sm So Sr TM TR UA Uk VI Act Alc Alv Atm Atu Av Bad Bar Bgs C-L C-M CRe Cas Ccs Cd Cor Cue Cz Ct Gna Gp Grn Gu Hue Hv Jae Lda Leo Mdr Mlg Mu Nrr Ore Pv Lug Ple Rio San Seg Sma Sor Svl Ter Tol Trg Val Vcl Zg Zm Arr Hr 01 03 04 05 06 07 08 13 15 16 17 18 19 21 24 25 26 27 29 30 31 32 33 34 36 38 41 42 43 44 46 48 49 50 51 56 58 60 62 63 65 66 68 69 70 71 73 74 75 76 78 80 01D 01H 01K 01G 03D 03E 04H 04I 05A 06B 06C 06K 06N 06R 06D 06V 07A 07B 07C 07G 13C 13F 21N 21Nb 24D 27E 29F 30D 30Df 30Du 31F 32A 32Ab 32I 32D 33E 33F 33G 33H 33K 33O 33P 36D 36Df 36F 36H 38C 38Ca 42D 42Dc 42E 44E 44L 44Lc 46F 49F 49Fe 56B 58G 58G 58Ga 58Gi 58Gg 62E 62G 63E 65A 65Ai 65Am 65Am1 65D 65Df 65Dg 65Dw 65Dö 65E 65F 65Fc 65Fp 65G 65Gb 65K 65Km 73C 73Cd 75F 75Fa 76B 76C 76D 76Dc 78D 78Da 80B 80Bc 80Bd 80G

Uncommon in the district, univoltine.

622. *Tomares callimachus* (Eversmann, 1848)

(Fig.64) (Map 15)

Synonym(s): *callimachus* Eversmann, 1848; *epiphania* Boisduval, 1848; #*dentata* Staudinger, [1892]. Original Reference: *Lycaena callimachus* Eversmann, 1848, Bull. Soc. Nat. Moscou 21: 208. Syntypes: Russia: Wolga, Ural; [Azerbaijan]: "Helenendorf" [Kirovabad]. Range (in code): Cc AZ Kir TR IQ IR Ab Elb Fa Ao RU Sr Uk VI Cm Syr Tm Gj Ind KK KG TrA GG Tbl Smt Akh 13 21 23 30 36 44 46 47 56 63 65 73 76 13F 13F35 13G 13Gv 21N 21Nb 23I 30A 30Ae 30D 30Df 44L 44Lc 47D 56D 56Dc 63B 63Ba 65A 65Am 65Am4 65D 65Dc 65Df 65Dh 65Dp 65Dq 65Dt 65Dn 65Dü 65Dy 65E 65Eb 65Ec 65F 65Fb 65Fd 65Fe 65Fg 65F3 65Fl 65F1 65Fz 65G 65Gf 65Gy 65Gi 65K 65Kd 65Kg 65Kk 65Kl 65Kz 65M 65Md 65N 65Nd 65Nc 65Nk 65Nn 65Np 65Np2 65Np4 65Nm 73D 73Da 76D 76Da 76B 76Bb 76D 76Dg

Uncommon in the district, univoltine, vernal.

623. *Tomares romanovi* (Christoph, 1882)

(Fig.65)

Synonym(s): *romanovi* Christoph, 1882. Original Reference: *Thestor romanovi* Christoph, 1882, Horae Soc. ent. ross. 17 (1/2): 106. Lectotype ♂: [Azerbaijan]: Nachitschewan: Ordubad (designated by Nekrutenko, 1995 [in] Hesselbarth et al., 1995: 506 (ZIMP)). Range (in code): Cc AZ GG Tbl IR Ab Elb Fa Kp Nv Ord TM TR Arr 04 12 13 21 23 30 36 47 56 62 65 72 73 76 04E 04Ea 13A 13Aa 13B 13Ba 13G 13Ga 13Gb 13Gv 21N 21Nb 23I 30B 30Bk 30Bg 30D 30Da 30Df 36F 36Fb 47B 56D 56Db 62G 65A 65Ai 65Ap 65D 65Dd 65Df 65Dg 65Dc 65Dq 65Dn 65Dp 65Dq 65Dü 65Dt 65Dl 65E 65Eb 65Ed 65F 65Fc 65Fd 65Fz 72E 72El 73C 73Cd

Uncommon in the district, univoltine, vernal.

624. *Turanana endymion* (Freyer, [1850])

(Fig.66)

Synonym(s): *endymion* Freyer, [1850]; #*panagaea* Herrich-Schäffer, [1851]; *endymion* Gerhard, [1851]; *panagaea* Herrich-Schäffer, [1852]. Original Reference: *Lycaena endymion* Freyer, [1850], Neuere Beitr. 6: 145, Taf. 572 figs. 2,3. Syntypes: Türkei: Amasia; Neotype ♂: Turkey: [Samsun Prov.: Ladik]: "Amasia, 10km SW Ladik (900m)" designated by Coutsis (2005, Nota lepid. 27: 251-272). Range (in code): Cc GG IL Pa He IR LB TR IQ Ssa Zj Ab Ak Elb Kp Se Ha TM Ke 01 02 03 04 05 06 07 08 13 14 15 21 23 24 25 26 29 30 31 32 33 35 36 38 42 44 46 47 50 51 52 55 56 58 60 62 65 66 69 70 71 72 73 76 80 04D 04Db 05A 06C 06K 06R 06V 06Z 07A 07Al 13C 13Cd 13E 13Ea 13G 13Gç 13Gv 13Gw 13Gz 30B 30Bc 30Bx 30Br 30D 30Df 31F 31Fb 32A 32Ab 32D 32I 35S 35Sb 36F 36Fb 38C 38Ca 42H 42V 44E 44L 44Lc 46F 46G 46Gi 46H 46Hc 55H 56F 58G 58Gi 65A 65Ai 65Am 65Am2 65Am3 65Am4 65B 65Bk 65Bx 65D 65Dc 65Dd 65Df 65Dm 65Dn 65Dö 65Dw 65G 65Ge 65Gd 65Gt 65F 65Fc 65Fe 65Fg 65F1 65Fj 65Fq 65Fw 65Fz 65K 65Kc 65Kz 65Kg 65N 65Nr4 65Nm 66A 66P 66Pa 72E 72Ec 72Ek 73C 73Cd 80B 80Bc

Common in the district, univoltine.

Argynnidae

625. *Aglais urticae* (Linnaeus, 1758)

Synonym(s): *urticae* Linnaeus, 1758; *opima* Verity, 1919; *variegata* Querci, 1932; *strandi* Verity, 1936. Original Reference: *Papilio urticae* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 477. Type(s): [Sweden (Verity, 1950)]. Range (in code): AL Bn Kts AT Ba BE BG BY CH CN Co CZ DE Dj DK EE ES FI FR GB GR HU IE Ii IS IT KG LB LT LU LV MK MN NL NO PL PT RO RU Sa SE Sem SI Si SK Sm So Sr Ti Tk TR T-S UA Ui Uk VI YU Cw Dv Smt H-W Sur Ssx Ken Sr So Tt Sb Cb Kg Or Uk Aq Rk Lt Pp Kw Ty Om Pw No To Mu Kuz Sli At Mn Sp Tk As Tm Db Buc Ssn Tar Sau DsA TrA Ax KuA TeA Um Ku Kml Adu IQ IR Ab Jal Ak Elb Th Mz Kh GG AM AZ Smt Bku Cc US Msc Ny Arr Nra 01 02 03 04 05 06 07 08 10 11 12 13 14 16 17 18 19 21 22 23 24 25 26 28 29 30 31 32 33 34 35 36 37 38 39 42 43 44 46 49 50 51 52 53 55 56 58 60 61 62 65 66 69 70 73 74 75 76 78 81 04D 04Db 05A 06D 06G 06H 06R 06Df 12B 13A 13Ab 13Ax 13B 13Bx 13G 13Gs 13Gv 13Gw 23D 23Dc 25C 25Ca 25F 25Fa 25Fc 30B 30Bb 30Ba2 30Bk 30Bp 30C 30Ca 30D 30Df 30Dx 31M 39C 46G 46Gf 49E 49Fa 49F 49Fd 56F 56Fc 58G 58Ga 58R 62G 62Ga 65A 65Am 65Amç 65Am3 65As 65B 65Bk 65Bx 65D 65Dc 65Dd 65Df 65Dk 65Dr 65Drb 65E 65Eb 65G 65Gd 65Ge 65Gv 65Gz 65F 65Fg 65Fj 65Fp 65Fq 65F2 65Fz 65K 65Kl 65Kg 65L 65Le 65N 65Nk 65Nr2 65Nm 66A 66P 66Pa 73A 73Ae 75F 75Fg 75Fj

Uncommon in the district, univoltine, adults hibernate.

626. *Argynnис (Fabriciana) niobe* (Linnaeus,1758) (Fig. 68)

Synonym(s): *niobe* Linnaeus,1758 Original Reference: *Papilio niobe* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 481. Type(s): [Sweden (Verity,1950)]. Range (in code): Kz Elb Dam Gor AL Am At Sj Kts AT Aty Ba BE BG BY CH CN CZ DE DK EE ES FI FR GR HU Ir IT KG KK Kr LB LT LU LV MK MN NL NO PL PT RO RU Sb SE Si SK Sm So Sr Sz TR UA Ui Ku Um Adu Uk Vl YU Sau Tar DsA TrA KuA Ax Ket T-S AM GG AZ IQ IR IL TM Kp TJ His Drw Pm Al Mu Nv Ord Tbl Smt Bjo Cc Ab Jal Mz Gls Kh AF Bd Bqu Prw Pnj 01 03 04 05 06 07 08 11 12 13 14 15 16 18 23 24 25 27 29 30 31 32 33 35 36 38 39 42 43 44 46 47 48 49 50 51 53 56 58 60 61 62 65 66 69 71 70 73 74 76 80 04D 04Db 05A 06B 06H 06K 06P 06R 06Rd 06V 06Z 12A 12Ab 13A 13Af 13Ax 13F 13F7 13G 13Gv 13Gw 23E 23I 23Ia 23Ib 23M 24E 24Ea 25F 25Fa 25Fc 27C 29A 29Ae 30A 30Aa 30B 30Bc 30Bx 30Bg 30Bf 30Bj 30Bq 30D 30Df 30Dj 31M 33K 33O 44E 44Ej 44L 44Lc 46F 46Fc 46G 46Gf 49E 49Ea 49F 49Fd 56F 56Fc 62G 65A 65Ai 65B 65Bo 65Bx 65D 65Dd 65Dda 65Df 65Dj 65Dl 65Dk 65Dm 65Do 65Du 65Dü 65Dn 65F 65Fe 65Fg 65Fh 65Fj 65G 65Gb 65K 65Kö 65Kg 66A 66P 66Pa 80B 80Bc

Uncommon in the district, univoltine.

627. *Argynnис (Pandoriana) pandora* ([Denis & Schiffermüller],1775) (Figs.69, 70)

Synonym(s): *pandora* [Denis & Schiffermüller],1775; *maja* Cramer,1775 nec *Fabricius*,1775; *cynara* *Fabricius*,1777; *cyrnea* Schwerda,1926; *transcaucasica* Moucha ,1967; *deserticola* Gross & Ebert,1975. Original Reference: *Papilio pandora* [Denis & Schiffermüller],1775, Ankündung syst. Werkes Schmett. Wienergegend: 176. Type(s): Austria: Vienna district. Range (in code): AF AL AM At AT AZ BG B-H BY CH CN Cn Co Cr CZ DZ DE EE ES Fe FR GG GR HU HV IQ IR IT LB Kr MA MK PL PT RO RU Sa Si SK Sr SS TJ Pm TM TN TR T-S UA Ui UZ Vl YU Z-G LAT Wn SY Aq Uk KG Nym Buc Ktm Sau Tar DsA Ket Bog Tu TeA KuA TrA Tm Ax KK Um PK Gg Ci Adr SSA Slh Mu Mu18 Um Ae CY T-S Ab Oru Elb Th Mz Gls Nv Ord Tbl Bjo Smt Cc Mos Lbs Agi Blid Taz Dju Tth Mage Abe Dje Khh Sbd Orn Tlm Hrh Dzc Azr 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 46 47 48 49 50 51 52 53 55 56 58 60 61 62 63 65 66 67 69 70 71 72 73 74 76 77 78 80 81 04D 04Db 05A 06B 06C 06G 06H 06K 06N 06P 06R 06Rd 06V 06Z 09K 09Ka 12A 12Ab 12B 13A 13Ac 13Ac2 13Ax 13C 13Cd 13F 13F7 13G 13Gs 13Gv 13Gw 14I 14Ib 21K 21N 21Nb 21P 21O 23D 23De 23E 23I 23Ia 23Ib 23M 25F 25Fa 27C 27Cb 29A 29Ae 30B 30Br 30D 30Df 30Dx 31F 31Fb 31M 33O 36F 36Fb 38H 38Hc 39C 44A 44Ab 44F 44Fb 44L 44Lc 44O 44Oj 46F 46Fc 46Fe 46Fi 46G 46Gi 46L 49E 49Ea 56F 58G 58Ga 58Gi 58R 58Rb 65A 65Ai 65Am 65Am2 65Am3 65Bx 65D 65Dk 65Dm 65Do 65Dr 65Drb 65G 65Gd 65Ge 65F 65Fe 65Fg 65Fj 65Fu 65Fc 65Fp 65Fz 65K 65Kg 65Kl 65Ks 65Ku 65Kz 66A 66P 66Pa 72E 72Ec 72Eg 72F 73A 73Ad 73D 73Db 76B 76Bf 76Bh 76C 76D 76Da 76Dg 78D 78Da 80A

Common in the district, univoltine.

628. *Argynnис (Speyeria) aglaja* (Linnaeus,1758) (Fig.67)

Synonym(s): *aglaja* Linnaeus,1758; *charlotta* Haworth,1802; *emilia* Acerbi,1802 nec Cr.,1779; *caroletta* Jermyn,1827; *locuples* Verity,1919 nec Butler,1879; *emilocuples* Verity,1919; *locupletata* Verity,1922; *montesignum* Sagarra,1926. Original Reference: *Papilio aglaja* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 481. Type(s): [Sweden (Verity,1950)]. Range (in code): AM AL At Bn Kts AT Aty Ba BE BG BY CH CN CZ DE DK EE ES Mu FI FR GB GG GR HU IE IT Ju KG KK LT LU LV MK MN NL NO PL PT RO RU SE Si SK Sm So Sr St TR T-S UA Ui Vl YU Cw Dv Smt H-W Sur Ssx Ken Sau Tar DsA TrA KuA Ax PK Ci Nwf Arr Geg Smt Akh Bku Bjo Sva Cc IR Ab Lkr Azr Ifr 01 03 04 05 06 07 08 10 11 13 14 16 18 24 25 26 28 29 30 31 32 33 34 36 37 39 42 43 46 50 51 52 53 57 58 60 61 62 65 66 67 69 74 75 76 78 05A 06G 06R 06Rd 13F 13F7 13G 13Gv 14I 14Ib 25F 25Fa 29A 29Ae 30B 30Ba 30Bc 30Bx 30D 30Dt 31F 31Fb 36F 36Fb 62G 62Ga 65A 65Ai 65Ac 65Ac3 65D 65Do 65F 65Fj 65F1 65Fz 66A 66P 66Pa 75F 75Fc 75F1 78D 78Da

Uncommon in the district, univoltine, a woodland species.

629. *Argynnис (s.str.) paphia* (Linnaeus,1758) (Figs.71, 72)

Synonym(s): *paphia* Linnaeus,1758; *valesina* Esper,1798; *magnata* Verity,1919; *revelata* Verity,1934; *magnifica* Verity,1919; *magnificamagnata* Verity,1950. Original Reference: *Papilio paphia* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 481. Type(s): [Sweden (Verity,1950)]. Range (in code): Ae AL Am At Kts AT Ba BE BG B-H BY CH CN Co CZ DE DK EE ES FI FR GB GR HU HV IE Ir IT JP Kh Kc KG KK KP Kr LT LU LV MK MA MN Mn NL NO Or PL PT RO RU Sa Sb SE Sh Si SK Sm So Sp Sr Ss TR Arr T-S UA Ui Um Adu Uk Vl Ya YU Cw Dv Smt H-W Sur Ssx SY Kuz Sli Tar Ket DsA Sa Dz Mu Bn KuA TrA IQ Ama IR Ab Gh Mz Elb Cc AM GG AZ Geg Len Smt Bjo Aj Dja Dju Sbd Bttna Lbs Clo Blid 01 02 05 06 07 08 09 10 11 13 14 16 17 24 25 29 30 31 32 33 34 35 36 37 39 41 42 43 46 48 52 53 55 60 61 62 65 67 73 74 75 76 77 78 80 81 05A 06R 13C 13Cd 13F 13G 13Gy 25F 25Fa 30A 30Aa 30B 30Bc 30Bx 30Bf 30Bj 33H 36F 36Fb 39C 46G 46Gf 56F 65A 65Ai 65D 65Do 73A 73Ad 73D 73Df 75F 75Fd 80A

Uncommon in the district, univoltine, a woodland species.

630. *Brenthis daphne* (Bergsträsser,1780) (Figs.73-77)

Synonym(s): *daphne* Bergsträsser,1780; *chloris* Esper,1778 nec *Fabricius*,1775; *epidaphne* Fruhstorfer,1907; *nikator* Fruhstorfer,1909; *tenuitermaculosa* Verity,1922; *syriaca* Belter,1935; *anatolica* Belter,1935. Original Reference: *Papilio daphne* Bergsträsser,1780, Nomencl. Beschr. Ins. 4: 32, Taf. 86 figs. 1,2. Type(s): Deutschland: [Hanau-Münzenberg]. Range (in code): AZ Len Der Sms At AT Ba BG BY CH CN DE ES FR Co GG GR HU IT JP LT IR Ak MK PL RO RU Si SK Sm So Sr TR UA YU KG Uk TM Kp T-S TrA DsA Tar Sau Da Bjo Smt Cc Ab 01 03 05 07 08 10 11 13 15 16 17 20 22 23 24 25 29 30 31 32 33 34 35 36 37 39 42 43 44 45 46 48 49 59

60 62 65 69 73 76 80 05A 13F 13F71 13G 13Gw 23I 23Ia 25F 25Fa 30A 30Aa 30B 30Bc 30Bx 30Bf 30Bj 31F 31Fb 33A 35L 36F 36Fb 39C 45L 45La 49E 49Ea 65A 65Ai 80B 80Bc

This species is reported here as new to the fauna of Van Province for the first time. The first author observed several caterpillars feeding on the leaves of *Rubus* (Rosaceae) growing in a shady creek bed at Paşaköy in late May 2016. Fırat (2002) listed two species of *Rubus* from Bahçesaray; *Rubus sanctus*, and *Rubus caesius*. The latter is more widely distributed in the district, and possibly the larval food-plant of *Brenthis daphne*.

631. *Brenthis hecate* ([Denis & Schiffmüller], 1775)

Synonym(s): *hecate* [Denis & Schiffmüller], 1775; *harmothoe* Frühstorfer, 1917; *florida* Verity, 1919; *stricta* Verity, 1933. Original Reference: *Papilio hecate* [Denis & Schiffmüller], 1775, Ankündung syst. Werkes Schmett. Wienergegend: 179. Type(s): [Austria]: Vienna district. Range (in code): Buc At Bn Al AT Ba BG BY CZ ES Mu FR GG Aj AM Arr Da Cc Gr HU IT IR Ak Kr LT MK RO RU SK Sm Sr TR Arr UA VI YU LAT Wn T-S KG Pm Sb Ur Nym Tar Sau TrA DsA Aa Tk Tu TM Kp CN Ui Ab 03 05 06 08 10 13 16 23 24 25 29 30 34 36 37 39 42 44 49 58 60 62 65 66 69 70 73 74 75 76 05A 06G 06K 06R 13G 13Ga 23I 23Ib 25F 25Fa 25Fb 29A 29Ac 30B 30Be 30Bg 49E 49Ea 58G 58Gi 65A 65Au 65D 65Dc 65Do 65F 65Fe 65Fz 65K 65Kb 65Kc 65Kl 66P 66Pa 75F 75Fc 76C GP464[↑]

Uncommon in the district, univoltine.

632. *Brenthis mofidii* Wyatt, 1968

Synonym(s): *mofidii* Wyatt, 1968 Original Reference: *Brenthis hecate* ssp. *mofidii* Wyatt, 1968, Z. Wien. ent. Ges. 53: 30, figs. Holotype [↑]: Iran: Elbursgeb.: Darband, 2250m (in coll. Wyatt) Range (in code): Elb IR Ab Mz TR IQ Er Ry 30 65 30A 30Aa 30B 30Ba1 30Bc 30Bx 30Bf 30Bg 30Bj 30Bq 30C 30Ce 30D 30Da 30Db 30Df 30Dt 65A 65At 65At4 65D

Uncommon in the district, univoltine, a woodland species.

633. *Issoria lathonia* (Linnaeus, 1758) (Fig. 78)

Synonym(s): *lathonia* Linnaeus, 1758; *saturata* Röber, 1897; *hungarica* Aigner-Abafi, 1906; *florens* Verity, 1916; *emiflorens* Verity, 1919; *attenuata* Sagarra, 1926; *nigroprivata* Verity, 1933. Original Reference: *Papilio lathonia* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 481. Type(s): [Sweden] (Verity, 1950)]. Range (in code): Adr AF AL At Kts AT Ba BE BG B-H BY Ch CH CN Cn Co CZ DE DK DZ EE ES FI FR GB GR HU HV IE IR IT KG KK Kr LB Ld LT LU LV MA MK NL NO PK PL PT RO RU Sa SE Sem Si SK Sm So Sr SS TJ Tk TM TN TR T-S UA Ui Uk UZ VI YU NP SI Ken Tm Sau Tar DsA TrA KuA Ax TeA Mu Mu18 T-T Sz Ket PK Ci Nwf Sfk Bl MM Abb Mre IQ Cc GG AZ AM Nv MD Tls T-S Ab Ak Ahw Ar Ara B-A Bk Brz Bu By Dzf Es Fa Gh Gor Ha Hz Il Kaz Kd Kh Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Gls Kh Nra Ifr Lkr Dju Agi Lbs Sbd Azr Hr Ng Lgh 01 03 04 05 06 07 08 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 42 43 44 45 46 48 49 50 51 52 53 55 56 57 58 59 60 61 62 65 66 67 69 70 71 73 74 75 76 77 78 80 81 04D 04Db 05A 06A 06B 06C 06G 06K 06N 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 13A 13Ab 13Ac 13Ax 13B 13Bg 13F 13F35 13G 13Gö 13Gg 13Go 13Gs 13Gv 13Gw 21N 21Nb 21O 23E 23I 23Ib 23M 25F 25Fa 27C 27Cb 30D 30Df 31F 31Fb 31M 36F 36Fb 39C 44A 44Aa 44Ab 44L 44Lc 46F 46Fc 46G 46Gi 49E 49Ea 56D 56Dc 56F 56Fn 58G 58Gi 58N 65A 65Aj 65Ai 65Am 65Am1 65B 65Bk 65Bn 65Bn1 65Bx 65D 65Dg 65Dj 65Dk 65Do 65Dr 65G 65Gd 65Ge 65F 65Fg 65Fh 65Fd 65Fe 65Ft 65Fq 65Fs 65Ft 65K 65Kg 65Ka 65Kc 65Kl 65Kö 65Ks 65Kp 65N 65Nk 65Np 65Nm 66A 66P 66Pa 73D 73Da 73Dg 75F 75Fc 75Fi 75Fj 76A 76Ad 78D 78Da

Uncommon in the district, bivoltine.

634. *Limenitis (Azuritis) reducta* Staudinger, 1901 (Fig. 79)

Synonym(s): *reducta* Staudinger, 1901. Original Reference: *Limenitis camilla* var. *reducta* Staudinger, 1901, Cat. Lepid. Palaearct. Faunen geb. 3(1): 22, nr. 135a. Syntypes: [Armenia]: Arm. or; [Iran]: Hyrc. Lectotype [↑]: Azerbaidjan: Hankynda, designated by Wagener, 1995, Die Tagfalter der Türkei: 978. Range (in code): Ae AL AM AT AZ BG B-H BY CH Co CZ DE ES Mu FR GG Cc GR HU HV IL IQ Ssa IR Ab Ak Elb Fa Glz Kh IT JO Kp LB LU MK NL Rd RO RU Sa Si SK Sm Sr SS SY TM TR UA YU CY 01 02 03 05 06 07 08 09 10 11 13 14 15 16 17 18 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 39 42 43 44 45 46 48 49 50 51 52 53 55 56 58 59 60 62 65 66 67 71 72 73 75 76 77 78 05A 06B 06C 06G 06K 06N 06P 06R 06Rd 06S 06V 13C 13Cd 13Cf 13Cg 13E 13Ed 13F 13G 13Gy 21N 21Nb 21O 23Ib 25F 25Fa 25Fc 27C 27Cb 30B 30Bo 30Br 31B 31L 31La 33K 36F 36Fb 39C 45L 45La 46F 46G 48A 48Ah 48D 49F 49Fc 56F 65A 65Ai 65Am 65Am3 65D 65Dk 65Dl 65Do 65F 65Fc 65Fd 65Fu 65K 65Kg 66A 72E 72Ec 73A 73Ad 73D 73Dg 75F 75Fc 75Fi 75Fj 76A 76Ad 78D 78Da

Uncommon in the district, univoltine, a woodland species.

635. *Melitaea (Cinclidia) ornata* Christoph, 1893 (Figs. 81, 82)

Synonym(s): *ornata* Christoph, 1893; *uralensis* Krulkowsky, 1897 nec Evers., 1844; *ufensis* Krulkowsky, 1902; *lokris* Frühstorfer, 1908; *telona* Frühstorfer, 1908; *amanica* Rebel, 1917; *emipunica* Verity, 1919; *punicata* Ragusa, 1919; *dorae* Graves, 1925; *nigrogygia* Verity, 1939; *enoch* Higgins, 1941; *#asciata* Wiltshire, 1946; *capreola* Varga, 1967; *kovacsii* Varga, 1967; *abbas* Gross & Ebert, 1975 Original Reference: *Melitaea phoebe* var. *ornata* Christoph, 1893, Dt. ent. Z., Iris 6: 87. Type(s): [Russia]: Südural: Guberla. Range (in code): BG Slv Rh Bgz He Alb IL Pa Hf JO LB Elb Th Bk Fa Ke TR Cc SY IQ Ama Hjo IR Shr At Bn Ao Bs KG Or RU Sr Tt Uk VI TR HU 01 02 03 05 06 07 08 10 12 13 15 16 17 18 19 20 21 23 24 25 26 27 28 29 30 31 32 33 35 36 38 41 42 43 44 46 48 49 50 51 55 56 58 60 62 65

66 68 69 70 71 73 76 80 05A 06B 06C 06G 06H 06K 06N 06Nc 06P 06R 06Rd 06S 06V 06Z 13C 13Cm 13F 13G 21L
 21Le 21Lf 21N 21Nb 21O 27C 27Db 30B 30Bc2 30Bx 31F 31Fb 33K 36F 36Fb 44E 44L 44Lc 49E 49Ea 56F
 56F1 56fg 56Fp 56Fm 56Fy 56Fs 58C 58G 58Ga 58Gi 62H 65A 65Ao 65Am 65Am4 65D 65Dc 65Dr 65Drb 65F 65Fz
 65Fc 65G 65Gf 65Gy 65L 65Le 65N 65Np 65Np7 65Nm 66A 66P 66Pa 73D 73Dg 76D 76Dg 80B 80Bd

Uncommon in the district, univoltine.

636. *Melitaea (Didymaeformis) persea* Kollar, [1849]

Synonym(s): *persea* Kollar, [1849]; *caucasica* Staudinger, 1861; *dodgsoni* Grose-Smith, 1887; *kaschitschenkoi* Christoph, 1889; *paphlagonia* Fruhstorfer, 1917; *magnacasta* Verity, 1929; *araratica* Verity, 1929; *sargon* Hemming, 1932; *tauricus* Belter, 1934; *hafiz* Higgins, 1941; *afghana* Heydemann, 1954; *darius* Gross & Ebert, 1975; *sangdana* Eckweiler, 1981; *jitka* Weiss & Major, 2000 Original Reference: *Melitaea persea* Kollar, [1849], Denkschr. Akad. Wiss. Wien 1: 52. Type(s): [Iran]: Persia [Shiraz]. Range (in code): IQ Su Bgd IR Ab Khy Zj Fa By Ke TR JO AF Kab Bl Nwf Ci Pj PK SY LB IL He Pa Hf Kp TM Cc AZ Nv Ord Arr 02 04 13 21 23 24 25 27 30 36 44 46 47 49 56 62 63 65 72 73 75 76 04B 13A 13Ab 13Af 13Ax 13B 13Ba 13G 13Gv 13Gw 21N 21Nb 21O 23D 23Dvc 23I 23Ib 25F 25Fa 25Fb 27D 27Db 30B 30Br 44L 44Lc 46G 46Gi 47D 49E 49Ea 49F 49Fd 56F 62G 62F 63B 63E 63M 65A 65Ac 65Ac2 65Ab 65Abb 65D 65Dc 65Df 65G 65Gm 65F 65Fe 65Fg 65Fh 65Fm 65Fc 65Fw 65Fz 65K 65Kc 65Kd 65Ké 65Kl 65Kö 65Kz 65Kg 65N 65Nj 65Np 65Np1 65Np2 65Np4 65Np5 65Np7 65Np8 65Nr3 65Nr4 65Nm 76A 76E

Uncommon in the district, univoltine.

637. *Melitaea (Didymaeformis) syriaca* Rebel, 1905 (Fig.83)

Synonym(s): *syriaca* Rebel, 1905; *pseudodidyma* Rebel, 1905; *aabaca* Fruhstorfer, 1911; *bloetei* Eisner, 1942 Original Reference: *Melitaea trivia syriaca* Rebel, 1905, Annln. naturh. Mus. Wien 20 (2/3): 194. Lectotype ♂, [Israel], "Syrien, Haifa" (NHMW), designated by Oorschot & Coutsis (2014: 53). Range (in code): LB Bei JO IL Pa Hf He SY TR GR Ae BG 01 02 03 05 06 07 08 09 10 11 12 13 15 16 17 18 19 20 21 22 23 25 27 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 45 47 48 49 50 51 55 56 57 58 59 60 62 63 65 66 69 70 71 72 73 76 77 80 81 05A 06B 06H 06K 06N 06R 06Rd 06V 06Z 12A 12Ab 12B 13A 13Ac 13Ac1 13Ax 13F 13G 13Gv 13Gw 21N 21Nb 23C 23Cc 23D 23Dc 23E 23I 23Ia 23Ib 23M 25F 25Fa 25Fb 27C 27Cb 30B 30Bc4 30Bx 31K 31Ka 31F 31Fb 33A 33C 33O 36F 36Fb 39C 44I 44L 44Lc 44O 44Oc 46G 46Gi 46Gf 48A 48Al 48D 49F 49Fd 49E 49Ea 58R 62G 62Ga 63B 63D 65A 65Ah 65Am 65Am4 65Au 65B 65Bk 65Bx 65D 65Dc 65Dd 65Dda 65Dl 65Dlc 65Dm 65Do 65Dt 65Dn 65F 65Fb 65Fc 65Fe 65Fz 65Fp 65Fz 65Fm 65Fq 65Fü 65F2 65K 65Kl 65N 65Nr3 65Nm 66A 66P 66Pa 72E 72Eh 72Ei 76A 76Ac 80B 80Bc

Uncommon in the district, bivoltine.

638. *Melitaea (s.str.) arduinna* (Fabricius, 1787) (Fig.80)

Synonym(s): *arduinna* Fabricius, 1787; *rhopopensis* Freyer, [1836]; *uralensis* Eversmann, 1844; *evanescens* Staudinger, 1886; *#fulminans* Staudinger, 1886; *kocaki* Wagener & Gross, 1976 Original Reference: *Papilio arduinna* Fabricius, 1787, Mant. Ins. 2: 60, nr. 577. Type(s): [Russia]: Russia australiori. Range (in code): Aa AF At Bn Ba BG CN Db GR KG KK MK RO RU Sr TJ Tk TR Cc T-S UA Ui UZ JO Buc Nym Ktm Tar Sau DsA TrA Tu Bog Mkk IR Ab Jal Zj Elb Th Lo IQ 01 02 05 07 10 13 21 24 25 27 30 31 32 36 39 42 43 44 46 47 49 56 65 72 73 80 05A 07D 13G 13Gv 21F 25F 25Fa 25Fb 27C 27Cb 30B 30Bc2 30Bx 30D 30Df 31M 39G 46G 46Gi 49E 49Ea 56F 65A 65Ai 65At 65B 65Bk 65D 65Dc 65Df 65Dd 65Dda 65Dl 65Dlc 65Dm 65Do 65Dt 65Dn 65F 65Fb 65Fc 65Fe 65Fz 65Fq 65Fz 65F2 65F3 65L 65Le 65M 65Md 65Nc 65Nb 65N 65Na 65Np 65Ns 65Nm

Uncommon in the district, univoltine.

639. *Melitaea (s.str.) cinxia* (Linnaeus, 1758)

Synonym(s): *cinxia* Linnaeus, 1758; *abacus* Retzius, 1783; *fulla* Quensel, 1791. Original Reference: *Papilio cinxia* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 480. Type(s): [Sweden (Verity, 1950)]. Range (in code): AL At Bn Kts AT Ba BE BG Hsk B-H BY CH CN CZ DE DK DZ EE ES Mu FI FR GB GR HU HV IT IQ IR Elb Ab Ak Fa Qz Ha KG Kr Ku LT LU LV MK MA MN NL NO PL PT RO RU SE Si SK Sm So Sr SS TR UA Ui Uk VI YU Sau Tar DsA TrA Mz GG AZ AM Nv Arr Ord Smt Bjo Tbl Cc MD T-S Ssa Shq Hjo Skj Sbd Ouk Akr Ifr 01 02 03 04 05 06 07 08 12 13 14 16 17 18 20 21 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 46 47 48 49 50 51 52 55 56 58 60 61 62 65 66 69 70 71 73 74 76 80 05A 06A 06B 06G 06H 06K 06N 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 13A 13Ab 13Ax 13B 13Ba 13Bg 13E 13Ea 13F 13G 13Gö 13Gg 13Go 13Gs 13Gü 13Gv 13Gw 21N 21Nb 23D 23Dc 23E 23I 23Ia 23Ib 23M 25F 25Fa 25Fb 25Fc 27C 29A 29Ae 30D 30Df 31F 31Fb 31M 36F 36Fb 38H 38Hc 44A 44Aa 44E 44Ej 46F 46Fc 46G 49E 49Ea 49F 49Fb 58G 58Ga 58Gi 62G 62Ga 62E 62F 65A 65Ai 65Am 65Am3 65Am4 65As 65At 65Au 65B 65Ba 65Bn 65Bn1 65Bx 65D 65Dc 65Df 65Dd 65Dda 65Dl 65Dlc 65Dm 65Do 65Dt 65Dn 65F 65Fb 65Fc 65Fd 65Fe 65Fg 65Fh 65Fm 65Fz 65G 65Gg 65Gy 65K 65Kl 65Kö 65Kz 65Ks 65L 65Le 65N 65Nr2 65Nr3 65Nr4 65Nr6 65Nr7 65Nm 66A 66P 66Pa 73D 73Dg 76C 76A 76Ab 76D 76Da

Uncommon in the district, bivoltine.

640. *Nymphalis polychloros* (Linnaeus, 1758)

Synonym(s): *polychloros* Linnaeus, 1758; *testudo* Esper, 1781; *pyrrhomelaena* Hübner, 1824; *pyromelas* Freyer, 1834; *fervida* Standfuss, 1896. Original Reference: *Papilio polychloros* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 477. Type(s): [Sweden (Verity, 1950)]. Range (in code): Ae AL AM Cc Ao At AT AZ Ba BE BG B-H BY CH Cm Co Cr CZ DE DK DZ Dju Blid ES Mu FI FR GB GG GR HU HV IE IQ IR Ab Elb Mz Gor Gls IT KG Kp Kr MA Rf MK MT NO PL PT Rd RO RU Sa SE Si SK Sm So Sr SS TM TN TR UA Uk VI YU Sur Ssx Ken LB SY PK Ci Nwf Haz

Mre CY Da Der Len EE LT LU LV Sbd Mage Agi Orn Anna Blid Btna Khh Ktr Dhm Ght Lkr Hrh Dzc 01 03 05 06 07 08 09 10 11 12 13 14 16 17 18 19 20 21 22 23 25 26 27 30 31 32 33 34 35 36 39 40 41 42 43 44 45 46 47 48 50 51 52 56 58 60 62 65 71 73 78 05A 06A 06V 06K 06R 06Rd 12A 12Ab 12Ac 13C 13Cd 13F 13F33 13G 13Gw 21N 21Nb 25F 25Fa 25Fb 27C 27Cb 31M 36F 36Fb 44E 44Ej 45L 45La 47D 48A 48Ak 56B 56Bb 56F 60C 62G 62Ga 65A 65Ai 65D 65Dk 65Dv 65Dt 78D 78Da

Uncommon in the district, univoltine, adults hibernate.

641. *Polygonia (Comma) c-album* (Linnaeus,1758)

Synonym(s): *c-album* Linnaeus,1758; *g-album* Fourcroy,1785. Original Reference: *Papilio c-album* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 477. Type(s): [Sweden (Verity,1950)]. Range (in code): AF AL At Bn Kts AT Ba BE BG BY CH CN Co CZ DE DK EE ES Mu FI FR GB GR HU IT KG Kr LB LT LU DV MA TN MN NL NO PL PT RO RU Sa SE SI Si SK Sm So Sr Ti TR UA Ui Uk Vl YU Cw Dv Smt H-W Sur Ssx Ken GG AZ AM Nv MD MK HV SS B-H MD Cc IQ Ama IR Mz Elb TH CMa Hr Ab Glz Tgr Ouk Dju Agi Dhm Hrh Dzc 03 05 06 08 11 13 14 16 17 18 20 21 22 24 25 27 29 30 31 32 33 34 35 36 37 39 41 42 43 44 46 48 49 50 52 53 55 58 59 60 61 62 65 66 73 74 75 76 78 81 05A 06B 06K 06R 13C 13Cd 13F 13F33 13G 13Gv 21N 21Nb 27C 27Cb 30D 30Df 31M 39C 46F 46G 46Gf 48F 49E 49Ea 56F 65A 65Ai 65D 65Do 66A 78D 78Da

Uncommon in the district, univoltine, adults hibernate.

642. *Polygonia (Comma) egea* (Cramer,[1775]) (Figs.84, 85)

Synonym(s): *egea* Cramer,[1775] (junior homonym); *vaualbum* Esper,1780; *l-album* Esper,1789; *triangulum* Fabricius,1793; *autumnalis* Stefanelli,1873; #*balucha* Evans,1932; #*pallida* Evans,1932. Original Reference: *Papilio egea* Cramer,[1775], Uitl. Kapellen 1: 124; Pl. 78 figs.C,D. Syntypes: [Turkey]: [Istanbul]; Constantinopel; [İzmir]: Smyrna (nec *Papilio egaea* Fabricius,1775; cf. IZN Art. 58, Opinion 516). Range (in code): Ae AF AL BG BY CH CN Co Cr FR GR IT LB MK MT BI PK Haz Mre IN Kma RO RU Sa Si Sr TR UA Ui YU JO IR Ab Elb Mz Th Fa Ss IQ Mos TM Kp Cc AM AZ GG Nv Ord Lag Smt Bjo IL Pa Hf 01 02 04 05 06 07 08 09 13 14 16 17 20 21 23 24 25 26 27 29 30 32 33 34 35 36 37 38 41 42 43 44 45 46 47 48 49 50 51 53 56 58 60 62 63 65 66 68 71 72 73 76 78 80 04D 04Db 05A 06D 06P 06R 13A 13Ac 13F 13G 13Gw 21N 21Nb 23D 23Dc 23I 23M 23E 25F 25Fa 27C 27Cb 30A 30Ad 30B 30Bc4 30Bx 30D 30Df 44E 44L 44Fc 46F 47D 47F 48A 48Aa 49Ea 56F 56Gb 58G 58Ga 58Gi 62G 62Ga 62F 63B 65A 65Ai 65At 65B 65Bn 65Bn1 65D 65Dc 65Dg 65Dk 65Dl 65Dla 65Dm 65Do 65Dv 65G 65Gb 65Gt 65F 65Fb 65Fc 65Fd 65Fe 65Fz 65K 65Kl 65Kg 65L 65Le 65N 65Np 65Nm 66P 66Pa 80B 80Bc

Uncommon in the district, univoltine, adults hibernate.

643. *Thaleropis ionia* (Eversmann,1851) (Fig.86)

Synonym(s): *ionia* Eversmann,1851; *ammonia* Herrich-Schäffer,1851. Original Reference: *Vanessa ionia* Eversmann,1851, [in] Fischer de Waldheim & Eversmann, Entomographia Imp. ross. 5: 111, pl.13, figs.1,2. Lectotype ♂: [Turkey]: Amasia (Nekrutenko,1995 [in] Hesselbarth et al., Die Tagfalter der Türkei: 970). Range (in code): Kas Ce AM GG GR IQ Slf AZ Ord Nv IR TR 03 05 06 07 08 13 21 23 24 25 28 30 32 33 42 44 47 48 56 58 60 62 65 70 73 05A 06R 13F 13G 13Gf 21L 21Le 21N 21Nb 25F 25Fa 33A 44F 44Fc 44O 44Oc 56F 62F 65A 65Ai 65Bx 65D 65Dw 65Dj 65Dl 65Dk 65Dv 65Dm 65Do 65Dob 65Dr 65Drb 65Dw 65Dü 65G 65Gd 65Ge 70B 73A 73Ad 73Ad2 73Ak

Uncommon in the district, univoltine, a woodland species.

644. *Vanessa (Cynthia) cardui* (Linnaeus,1758) (Fig.87)

Synonym(s): *cardui* Linnaeus,1758; *carduelis* Cramer,1775; *elymi* Rambur,1829; *kershawi* McCoy,1868; *pallida* Schoyen,1881; *japonica* Stichel,1908; *universa* Verity,1919; *takesakiana* Kato,1925; *jacksoni* Clark,1927. Original Reference: *Papilio cardui* Linnaeus,1758, Syst. Nat. (Edn.10) 1: 475. Syntypes: Europa, Africa [Sweden (Verity,1950)]. Range (in code): Ad Ae AF AL As At AT Az BE BG BH BY Ch CH CN Co Cr CY CZ DE Dh DK EE ES FI FR GB GR Hd Hj HU IE IL IN IQ IR IS IT JO KG KK KW LB Ld LT LU LV MN MT Mu Nf Nj NL NO PH PK PL PT QA Rd RO RU SA Sa SE SI Si SK SY Ti TJ TM TR T-S UA Ui UZ YE YU SS HV B-H MK Mt AO BF BI BJ BW BZ CF CG CI CM Cn DJ Dj DZ EG EH ER ET FP GA GH GM GN GO GW KE KM LR LS LY MA MG ML MR MW MZ NA NE NG RW SC SD Sem SL SN SO ST SZ TD TG Tk TN TZ UG ZA ZM ZR ZW Cw Dv Smt H-W Sur Ssx Ken Cy LY Kts Tm Ci Um Sau Tar DsA TeA KuA TrA Ket Bn Ar Mu Mu18 GG AZ Nv AM MD NP Ab Ak Ahw Ar Ara B-A Bk Brz Bu By Dzf Es Fa Gh Gor Ha Hz Il Kaz Kd Kh Km Kz Lo Ma Mz Qz Se Ss Th Yz Zj Ke Luz Mno Neg Pal US MX Aks Alb Arz Cf Cnt Col Dw Fl Ge Id Idp Iln Io Kan Knt Lou Mai Mch Mis Mns Mon Mrl Msc MSS NCa NDk NMx Ne Neb Nh Nje Ny Oh Ok Org Pns RDi SDk Tnn Tx Ut Vi Wr WVi We Ws Wy Ord Nta Kzu PtB Gau Pre Est Spb Lj Tva Lpo MdK Ent Kru Pma Pf Pa Hf TH CMa SD91 SD119 MW Zom Arr Oru Jal Msw Kh KP KR JP Koh Msr Nra Bh Ad SO Zai Ifr Rbt Saia Tlm Orn Agi Blid Ges Dje Ogl Bsk Ktr Btna BSa Tmn Ah Ajj Hrh Sfr Mzg Onç Ceg Gtt Rbt Azt Idl Ath Ng Jla Hr BIM Prw Pnj 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 65 66 67 68 69 70 71 72 73 74 75 76 78 80 81 04D 04Db 05A 06B 06C 06D 06G 06H 06K 06N 06R 06Rd 06V 06R 13A 13Ab 13Ac 13Ax 13B 13Ba 13C 13Cf 13Cg 13D 13Da 13F 13F33 13F35 13G 13Gö 13Gö 13Gv 13Gk 13Go 13Gw 13Gz 14I 14Lb 21K 21L 21Le 21N 21Nb 21Nh 21P 21Pa 21O 23D 23Dc 23I 23Ia 23Ib 23E 23M 25A 25F 25Fb 25Fc 27C 27Ch 29A 29Ac 30B 30Bb 30Bk 30D 30Df 31F 31Fb 31K 31Ka 31La 36D 36Db 39C 44A 44Aa 44Ab 44E 44L 44Fc 45L 45L 46F 46Fc 47F 48A 48Ak 48D 48F 48L 49E 49Ea 49Ec 49F 49Fb 49Fe 49Ff 56A 56D 56Db 56Dc 56Dh 56Dg 56F 58C 58G 58G 58Gd 58Gi 62G 62Ga 62E 63B 63Ba 63D 63E 63G 63M 65A 65Aj 65Ai 65Am 65Am1 65Am3 65Ac 65At 65At1 65At2 65Au 65B 65Bk 65Bi 65Bx 65D 65Dc 65Dg 65Dk 65Dl 65Dlc 65Dn 65Do 65Dr 65Drb 65Dt 65E 65Eb 65Ec 65Ed 65F 65F1 65Fb 65Fd 65Fg 65Fj 65Fm 65Fn 65Fq 65Fr 65Fü 65Fw 65Fz 65G 65Gb 65Ge 65Gf 65Gy 65Gl 65Gi 65Gv 65Gz 65K 65Kc 65Ka 65Kl 65Kg 65Ks 65Ky 65Ky 65L 65Le 65N 65Nc 65Nc4 65Ng 65Nh 65Nk 65Np 65Np1 65Np2 65Np3 65Np4 65Nm 65Nl 65No 65Nr5 65M 65Mc 65Md

66A 66P 66Pa 72E 72Ek 72F 73D 73Da 73Df 73H 75Fg 75Fj 75Fi 76A 76Ac 76B 76Bf 76Bh 76C 76D 76Da 78D 78Da 80B 80Bc

Common in the district, migrant.

645. *Vanessa (s.str.) atalanta* (Linnaeus, 1758)

Synonym(s): *atalanta* Linnaeus, 1758; *amiralis* Retzius, 1783; #*klemensiewiczi* Schille, 1896; #*klimene* Fischer, 1896; *italica* Stichel, 1900. Original Reference: *Papilio atalanta* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 478.

Type(s): [Sweden (Verity, 1950)]. Range (in code): IL He Pa Hf Ae AL Ao At AT Az Ba BE BG B-H BY CH CN Co Cr CZ DE DK DZ EE ES FI FR GB GR HU HV IE IR IS IT JO KG Kp Kr LB LT LU LV MA MK MT NL NO PL PT Rd RO RU Sa SE Si SK Sm So Sr SS TM TN TR T-S UA Uí Uk VI YU Cw Dv Smt H-W PK Zh Bl Cc GG AZ AM CY US MX Sur Ssx Ken Cn Mu Mu18 Nv MD Elb Mz Glis CA GT CU HT NZ AU Aks Alb Arz Cf Cnt Col Dw Fl Ge Idp Iln Io Kan Knt Lou Mai Mch Mis Mns Mon Mrl Msc Mss Nca Ndk NMx Ne Neb Nh Nje Ny Oh Ok Org Pns RDi SDk Tnn Tx Ut Vi Vr WVi Wc Ws Wy IQ Bgd Ab Blid Orn Agi Len Krn Ktr Cst Tun Tlm Tgr Hrh Hmk Mzg Tou Clo Sbd Rbt o1 o3 o4 o5 o6 o7 o8 o9 o10 o11 o13 o14 o16 o17 o18 o21 o22 o23 o24 o25 o27 o29 o30 o31 o32 o33 o34 o35 o36 o37 o38 o39 o42 o43 o44 o45 o46 o48 o50 o51 o52 o53 o55 o56 o58 o59 o60 o61 o62 o63 o65 o71 o74 o75 o77 o78 o80 o81 o4D o4Db o5A o6G o6H o6R o6D o6S o6Z o9K o9Ka o13F o13F33 o13G o13Gü o13Gw o14I o14Ib o21N o21Nb o23E o27Cb o30D o30Df o33A o33Ak o39C o45L o45La o46F o46Ff o48A o48Ak o48D o48F o48L o56B o56Bb o56F o58G o58Ga o58Gi o63D o63E o65A o65At o65At1 o65D o65Dc o65F o65Fb o65Fq o65Fs o65Fz o65L o65N o65Nc o65No o65Nm o66A o66P o75F o75Fi o77F

Uncommon in the district, univoltine, adults hibernate.

Libytheidae

646. *Libythea (s.str.) celtis* (Laicharting, 1782)

Synonym(s): *celtis* Laicharting, 1782. Original Reference: *Papilio celtis* Laicharting, 1782, [in] Fuessly, Arch Insektengesch. (2) (4): 1, pl.8 figs.1-3. Type(s): S.Tirol: Bolzano. Range (in code): AL AT BG B-H Bw BY CH Cr CY DZ Clo Blid TN ES Mu FR GR HU HV IQ IR Ab Elb Glis IT Kp MK PK Ci Nwf PT RO RU Sa Si SK SS TM TR Cc UA YU TrA Ax Tls KG CN TW JP KP KR T-S o1 o3 o5 o6 o7 o8 o9 o10 o11 o13 o14 o16 o17 o20 o21 o23 o25 o26 o27 o29 o30 o31 o32 o33 o34 o35 o37 o38 o41 o42 o43 o46 o48 o52 o56 o58 o60 o62 o65 o66 o71 o73 o76 o5A o6A o6K o6R o13C o13Cd o13F o13F33 o13G o13Gü o13Gw o14I o25Fa o27Cb o30B o30Br o30D o30Df o31M o46G o46Gi o56D o56Dc o56F o56Fb o60C o62G o65A o65Ai o65At o65At1 o65Bx o65D o65Dc o65Dl o65Dl o65Dk o65Dm o65Ge o65Fz o65N o65Nm o66A o66P o66Pa o73A o73Ad o73Df

Uncommon in the district, univoltine, adults hibernate.

Satyridae

647. *Brintesia circe* (Fabricius, 1775) (Fig.88)

Synonym(s): *circe* Fabricius, 1775; *proserpina* Denis & Schiffermüller, 1775; *maga* Fruhstorfer, 1909; *venefica* Fruhstorfer, 1909; *gabalae* Gaillard, 1959; *maladettæ* Varin, 1962. Original Reference: *Papilio circe* Fabricius, 1775, Sys. Ent.: 495, nr.116. Syntypes: Europa. Range (in code): AL AT BE BG BY CH CZ DE ES Mu FR GR HU IT Kr LU PL PT RO RU Da Der Sa Si SK Sr TR Cc AZ Len UA YU IR Ha Ab Oru Qba Ak IQ Slh S-T o1 o3 o5 o6 o7 o8 o10 o11 o13 o15 o16 o17 o18 o20 o21 o22 o24 o25 o27 o29 o30 o31 o32 o33 o34 o35 o36 o37 o39 o42 o43 o45 o46 o47 o48 o51 o53 o56 o58 o60 o62 o64 o67 o70 o71 o72 o73 o76 o80 o5A o6B o6D o6N o6R o6V o6W o6Z o7A o7B o7Ah o7B 13F o21L o21Lf o21N o21Nb o24E o24Ea o27C o27Cb o29A o29Ae o31F o36F o36Fb o39C o44F o44Fb o45L o45La o46F o46G o46Ff o56F o58R o58Rb o65A o65Am o65Am2 o65K o65Kg o72E o72Ec o78D o78Da o79B o80A o80B o80Bd o80C o80E o80Ea

Uncommon in the district, univoltine, a woodland species.

648. *Chazara (s.str.) briseis* (Linnaeus, 1764)

Synonym(s): *briseis* Linnaeus, 1764; *daedale* Bergsträßer, 1780; *bataia* Fruhstorfer, 1909; *interjecta* Verity, 1916; *variabilis* Varin, 1958; *pictonica* Varin, 1958. Original Reference: *Papilio briseis* Linnaeus, 1764, Museum Ludoviceae Ulriciae: 276. Type(s): Germania. Range (in code): AF AL AM Ao At Bn Kts AT Aty AZ Ba BE BG B-H BY CH CN CY CZ DE DZ ES FR GG GR HU HV IQ IR IT Ju KG KK LU MA MK MN PL RO RU SE Si SK Sm So Sr SS TJ TM TN TR T-S UA Uí Uk UZ VI YU Tm VI Ao Sr Uk Aq Or Sm Tt Cb Kt Kw Ty Om Pw Ka Rk Tar Sau Ssn Mn Buc At Bn Da Der Mu Trt Kts Ur Aa Ku Sem Tk Uí TeA KuA DsA Bc Ab Sro Qba Msw Ak Kd Mz Elb Kp Sju Cc Bc Btua Hr o1 o2 o3 o4 o5 o6 o7 o8 o10 o11 o12 o13 o14 o15 o16 o17 o18 o19 o20 o21 o23 o24 o25 o26 o27 o29 o30 o31 o32 o33 o34 o35 o36 o37 o38 o40 o42 o43 o44 o46 o47 o48 o49 o50 o51 o53 o55 o56 o60 o62 o63 o64 o65 o66 o68 o69 o70 o71 o73 o74 o76 o78 o80 o1A o1H o1K o4D o5A o6B o6C o6D o6G o6H o6K o6N o6R o6V o6W o6Z o12A o12B o12E o13A o13Ab o13Ax o13F o13G o13Gü o13Gw o21N o21Nb o21P o21K o27D o27E o30B o30Br o31A o34C o36F o36Fb o44F o44Fb o44L o44Lc o44O o44Od o44Oi o46D o46F o46Ff o46G o46Ff o49E o49Ea o49F o49Fe o56F o58G o58Gg o58Gj o58Gk o58R o58Rb o65A o65Ai o65At o65At1 o65At4 o65B o65Bk o65Bo o65Bx o65D o65Dc o65E o65Eb o65F o65Fc o65Fd o65Fe o65Fg o65F1 o65Fj o65Ft o65Fx o65Fz o65K o65Kb o65G o65Ga o65Gb o65Gm o65Gn o65Go o65Gp o65Gq o65Gs o65K o65Kc o65Kl o65Kr o65Ks o65Ku o65Kü o65Ky o65N o65Nb o65Np2 o65Np3 o65Np4 o65Np5 o65Nr2 o65Nr3 o65Nr4 o65Nr6 o65Nm o66A o70C o70Cb o73A o73Ad o76C o76D o76Da o76Dg o78D o78Da o80B o80Bc o80Bd

Common in the district, univoltine.

649. *Coenonympha (s.str.) pamphilus* (Linnaeus, 1758)

(Fig.89)

Synonym(s): *pamphilus* Linnaeus, 1758; *menalcas* Poda, 1761; *nephele* Hufnagel, 1766; *marginata* Heyne, 1894; *orantia* Fruhstorfer, 1908; *scota* Verity, 1911; *infrarasa* Verity, 1926; *juldusica* Verity, 1926; *asiaemontium* Verity, 1926; *euxina* Verity, 1926; *posteuxina* Verity, 1926; *londonii* Verity, 1926; *neolyllus* De Lattin, 1950. Original Reference:

Papilio pamphilus Linnaeus,1758, Syst. Nat. (Edn.10) 1: 472. Type(s): Suecia. Range (in code): Aa AL AM Ao Aq AT Aty AZ Ba BE BG B-H Bs BY Cb CH CN Co CZ Db DE Dg DK EE ES Fe FI FR Ga GB GG GR HU HV IQ IR IT Ju KG Kg KK Kr Ku Kw Ky LB LT LU LV MK Mn NL NO Or PL Pp Psa PT Pw Rk RO RU Sa SE Si SK Sm So Sp Sr SS Tk Tm TM TR T-S Tt UA Ui Uk UZ VI YU Ssa Slh Mu MA DZ IE MA MT Om TN Ty DsA Tar Sau Tar TrA Mrk Cw Dv Smt H-W Sur Ssx Ken At Bn SY Elb Kp Ab Oru Sro Ak Ha Gls Kh Cc Ouk Rf Lkr Azz Ifr Dju Tth Rbt Tlm Orn Berr Ges Dje Bsa Khh Btua Lbs Cst Dhm Dze Hrh Ght 01 03 04 05 06 07 08 09 10 11 12 13 14 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 01G 01H 01K 05A 06A 06B 06C 06D 06G 06H 06K 06N 06P 06R 06Rd 06S 06V 06Z 12A 12Ab 12Ai 12B 12E 12Eb 13A 13Ab 13Ae 13Ax 13B 13Ba 13Bg 13C 13Cf 13D 13Da 13F 13G 13Ga 13Gö 13Gö 13Gv 13Gw 14I 14Ib 21L 21Le 21Lf 21Ld 21N 21Nb 21Nh 21O 23D 23Dc 23Ia 23Ib 23E 25F 25Fa 25Fc 30A 30B 30Bb 30Bk 30D 30Da 30Df 33K 36D 36Db 36F 36Fb 38H 38Hc 39C 44A 44Aa 44L 44Lb 44Lc 44O 44Oi 46F 46Fc 46Fd 46G 46Gf 48D 48F 49E 49F 49Fa 49Fb 49Fe 49Ff 56B 56F 58C 58G 58Gd 58Gi 58K 58N 58R 58Rb 62D 62H 62G 62Ga 62F 65A 65Ai 65Ag 65Am 65Am1 65As 65B 65Bn 65Bn1 65Bo 65Bx 65D 65Dc 65Df 65Dl 65Dq 65Dn 65Dm 65Do 65Dr 65Dt 65E 65Eb 65Ec 65Ed 65F 65Fc 65Fç 65Fd 65Fe 65Fg 65Fh 65Fj 65Fq 65Ft 65Fz 65G 65Ga 65Gb 65Gd 65Gf 65Gy 65Gz 65K 65Kg 65Kl 65Ks 65Ky 65Ky1 65Kw 65L 65Le 65M 65Md 65N 65Nc 65Ni 65Np 65Nr2 65Nr6 65Nm 66A 66P 66Pa 72F 76B 76Bf 76Bh 78D 78Da 80B 80Bc

Common in the district, bivoltine.

650. *Coenonympha (s.str.) saadi* (Kollar,[1849]) (Fig.90)

Synonym(s): *saadi* Kollar,[1849]; *iphias* Eversmann,1851. Original Reference: *Satyrus saadi* Kollar,[1849], Denkschr. Akad. Wiss. Wien 1850: 11. Type(s): [Iran]: Farsistan, Schiraz (NHMW). Range (in code): Cc AM IR Ab Ak Msw Zj Fa Elb Th Ha TR Arr IQ Slh 02 12 13 21 23 25 27 30 44 46 47 56 58 62 63 65 72 73 76 12A 12Ab 12B 13C 13Cf 13E 13Ea 13F 13G 13Gv 21K 21L 21Lf 21N 21Nb 21O 21P 23C 23Cc 23D 23Dc 23I 23Ia 23Ib 23M 30A 30B 30Bf 30Bg 30Bo 30Br 30Bt1 30D 30Da 44A 44Aa 44Ac 44E 44L 44Lc 44O 46G 46Gi 47D 47F 47H 56A 56B 56F 58G 58Ga 58Gi 62D 62E 62F 62H 63E 63M 65A 65Ai 65D 65Dc 65Dç1 65Dd 65Dka 65Dk 65Dl 65Dlc 65Do 65Doa 65Dn 65Fz 72E 72Eb 72Ec 72Ed 72Ef 72Ek 72F 73A 73Ac 73Ae 73C 73Cd 73Ce 73D 73Df 76B

Uncommon in the district.

651. *Esperarge (s.str.) clymene* (Fabricius,1787) (Fig.91)

Synonym(s): #*climene* Esper,[1783]; *clymene* Fabricius,1787; *boreas* Latreille,1803; *synclimene* Hübner,[1819]. Original Reference: *Papilio clymene* Fabricius,1787, Mant. Ins. 2: 44, nr.434. Type(s): Russiae australioris sylvaticis. Range (in code): AL Cc AZ BG Elb GG GR IQ Slh IR Ab Qba Jal Ak Elb Th Fa Mz RO RU Sm Sr Th TR VI YU 04 05 06 07 08 12 13 16 19 23 24 25 29 30 36 38 40 42 44 46 49 56 58 60 62 65 66 69 71 73 75 76 04D 04H 04Ha 05A 06D 13A 13Aç 13Af 13Ag 13Ah 13Ax 13D 13Da 13E 13Ea 13F 13F71 13G 13Ga 13Gv 13Gw 24E 24Ea 25F 25Fa 25Fc 30B 30Be 30D 30Dç 36D 36F 36Fb 44L 44Lc 46F 46Ff 49E 49Fa 49Ee 49Ef 49F 49Fe 56F 65A 65Ad 65D 65Dc 65Dg 65Dl 65E 65Eb 65F 65Fc 65Fe 65Fg 65Fh 65Fj 65Fm 65Fu 65Fü 65Fz 65G 65Gl 65Gp 65K 65Kc 65Kd 65Kg 65Kz 65Kl 65Kö 65Kü 65L 65Le 65N 65Np 65Nr2 65Nr3 65Nr6 65Nm 66A 76C 76D 76Dj Common in the district, univoltine.

652. *Hipparchia (s.str.) syriaca* (Staudinger,1871) (Fig.92)

Synonym(s): *syriaca* Staudinger,1871; *attikana* Fruhstorfer,1907; *meschetica* Jachontov,1915; *tokatensis* Gross,1959. Original Reference: *Satyrus hermione* var. *syriaca* Staudinger,1871, Cat. Lepid. Eur. Faunengeb. (2): 27. Lectotype ♂: [Lebanon]: Beirut (Kudrna, 1977:40). Range (in code): Ae AL BG B-H CY GR HV IQ IR Ab LB Bei MK Rd RO TR Cc YU SY 01 03 05 06 07 08 09 10 11 12 13 14 15 16 17 19 20 21 22 23 24 25 26 27 29 30 31 32 33 34 35 36 37 38 39 42 43 44 46 47 48 51 52 55 58 60 62 64 65 66 68 71 72 73 74 75 76 77 78 80 01H 01K 05A 06R 06Rd 07A 07B 12E 12Ec 13F 13G 21N 21Nb 23D 23Dc 24E 24Ea 25F 25Fa 30D 30Df 30Dt 33A 33Ae 33Af 33K 33Kc 35T 35Td 48A 48Ai 48D 56A 56Ac 56F 62D 65A 65Am 65Am2 65Am3 65F 65Fj 65N 65Np 65Nm 66A 66P 72E 72Eg 73C 73Cd 73D 73Db 73Df 75F 75Fc 78D 78Da 79B 80B 80Bc 80Bd

Common in the district, univoltine.

653. *Hyponephele (s.str.) lycaonoides* Weiss,1978 (Figs.93-95, 112) (Map 16)

Synonym(s): *lycaonoides* Weiss,1978; #*lycaonides* Nazari,2003. Original Reference: *Hyponephele lycaonoides* Weiss,1978, Atalanta 9 (3): 230-233, figs.1,2,. Holotype ♂: Iran: Luristan: Marg-e-Malek 30km östl. Kuhrang 3200m. (in NPMP). Range (in code): IR Ab Khy Th Diz Lo TR Cc AM Nv AZ 07 13 30 65 69 73 13F 30B 30Bo 65A 65Ai 65D 65Do 65F 65Fp 65Fz 73D 73Dg GP2705♂

This species was described by Weiss in Iran (Luristan). In Turkey is confined to southern and south-eastern regions. Bahçesaray populations may be attributed to subsp. *suati* Koçak (Koçak, 1989).

Common in the district, univoltine.

654. *Kirinia (Melike) roxelana* (Cramer,[1777])

Synonym(s): *roxelana* Cramer,[1777]; #*anatolica* Koçak,1989. Original Reference: *Papilio roxelana* Cramer,[1777], Uitl. Kapellen 2:101, pl.161, figs. C-F. Syntypes: [Türkei]:Constantinopel [=Istanbul], Smyrna [=İzmir]. Range (in code): Ae AL BG Cc Cm CY GR Rd RO RU LB IQ Ssa IR Ab Lo TR UA YU SY 01 02 03 05 06 07 08 09 10 11 13 14 15 16 17 19 20 21 22 23 25 26 27 29 30 31 32 33 34 35 38 39 42 43 44 45 46 47 48 49 51 55 56 58 59 60 62 65 66 71 72 73 78 80 01K 05A 06B 06C 06G 06R 06Rd 07B 07Bb 07F 07M 12B 13B 13Ba 13C

13Cf 13F 15A 21L 21Lf 21N 21O 21P 23C 23Cc 23D 23Dc 23M 24E 24Ea 27C 27Cb 31M 39C 42D 42Dc 44A 44Aa
 44L 45L 45La 46G 46Gf 47L 47La 47F 47Fa 48A 48Ab 48Ah 48Ae 48Ai 48Ak 48D 48F 49E 49Fa 56A 56B 56F 56Fc 62F
 62G 62Ga 65A 65Ai 65D 65Do 65Dk 65Do 66A 72F 73A 73Ad 73Cd 73D 73Df 78D 78Da 80A 80B 80Bc 80C
 Uncommon in the district, univoltine.

655. *Lasiommata maera* (Linnaeus, 1758) (Fig.96)

Synonym(s): *maera* Linnaeus, 1758; *pandion* Poda, 1761; *hiera* Fab., 1777; *maja* Fuchs, 1873; *monotonia* Schilde, 1885; *crimea* Bang-Haas, 1907; *atabryris* Fruhstorfer, 1909. Original Reference: *Papilio maera* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 473. Type(s): Suecia (vide Linnaeus, 1746 Fauna Suecica (1): 238). Range (in code): Ae AL Cc AM At Bn AT AZ Ba BE BG B-H Bs BY Cb CH Cr CY CZ DE DK EE ES Mu FI FR GG GR HU HV IL IT KG Kg Kr Kw LB LT LU MK Mn NL No NO Om Or PL Pp PT Rd RO RU SE Si SK Sm So Sp Sr SS Tk TR Tt Ty UA Uk VI YU At Sau Mrk Tar DsA Cb Kg Pp Kw Ty Pw SY Sb T-S Arr Pa Hf CN Ui Mu18 Cc Pja Kis Tbl Ab MA DZ Rf Lkr Dju 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 20 21 22 23 24 25 27 28 29 30 31 32 33 34 35 36 37 38 39 41 42 43 44 46 48 50 51 52 53 55 57 58 60 61 62 65 66 67 68 71 73 74 75 76 78 80 01D 01E 01G 01H 05A 06B 06G 06K 06R 06Rd 13A 13Ac 13Ac1 13Ax 13G 13Gv 13Gw 21N 21Nb 21O 25F 25Fa 25Fb 27C 27Cb 31K 31Ka 31M 33A 33Ag 36F 36Fb 46F 46G 46L 48A 48Ag 48D 56F 58G 58Gi 65A 65Ac 65Ac2 65Am 65Am4 65As 65At 65B 65Bn 65Bn1 65D 65Do 65F 65Fq 65Fz 65K 65Kc 65Km 65Kö 65L 65Le 66A 80B 80Bc 80C
 Uncommon in the district, bivoltine.

656. *Lasiommata megera* (Linnaeus, 1767)

Synonym(s): *megera* Linnaeus, 1767; *caledonia* Verity, 1911; *alticola* Verity, 1911; *pseudoadrasta* Stauder, 1922; *infrapallens* Verity, 1922; *ocellatior* Verity, 1923; *pallidodepulverata* Verity, 1923. Original Reference: *Papilio megera* Linnaeus, 1767, Syst. Nat. (Edn.12) 1(2): 771, nr.142. Range (in code): Ae AL AT BE BG B-H BY CH Co Cr CY CZ DE DK EE ES Mu Mu18 FI FR GB GR HU HV IE IL IQ Dy IR Ab Qba Jal Ak Msw IT Kp Kr LB LT LU LV MK MT NL NO PL PT Rd RO RU Sa SE Si SK Sm So Sr SS SY TM TR Cc JO UA VI YU Cw Dv Smt H-W Sur Ssx Ken DZ MA TN SkI Ktr Dja Mkn Masc Ndr Saia Orn Agi Blid Ges Dje Bsk Btta Lbs Khh Cst Ess Mzg Hrh Ahr Azr Rbt 01 02 05 06 07 08 09 10 11 12 13 14 15 16 17 20 21 22 23 24 25 26 27 28 30 31 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 55 56 57 58 59 60 62 63 65 66 67 70 71 72 73 74 75 76 77 80 01D 01E 01A 01G 01H 05A 06B 06G 06K 06N 06P 06R 06Rd 06S 06Z 13A 13Ac 13Ac1 13Ax 13B 13Bg 13F 13G 13Gv 13Gk 13Gm 13Go 13Gs 13Gü 13Gw 21L 21Le 21N 21Nb 21P 25F 25Fa 25Fb 27C 27Cb 31K 31Ka 33O 36F 36Fb 39C 44A 44Ab 44L 44Lc 45L 45La 46G 48A 48Aa 48Ad 48Ab 48Ag 48Am 48D 49E 49Fa 56F 63E 65A 65Ac 65B 65Bk 65Gx 65D 65Dd 65Dda 65G 65Ge 65Gn 65F 65Fe 65Fj 65Fl 65Fq 65Fs 65Ft 65F3 65K 65Kg 65Kö 65N 65Nc 65Np 65Nm 66A 72E 72Eb 72Ed 73A 73Ad 73Db 73D 73Dg 73H 75F 76A 76Ac 76Ad 80E
 Uncommon in the district, bivoltine.

657. *Maniola (Telmessiola) telmessia* (Zeller, 1847)

Synonym(s): *telmessia* Zeller, 1847; *pallescens* Butler, 1868; *kurdistana* Heyne, 1894; *oreas* Le Cerf, 1912; *maniolides* Le Cerf, 1912; *ornata* Turati & Fiori, 1930; *marenigrans* Verity, 1938; *pelekasi* Kattulas & Koutsafitikis, 1978. Original Reference: *Hipparchia telmessia* Zeller, 1847, Isis 1847: 4. Syntypes: 2♂ 4♀: [Türkei]: Makri [Fethiye]: [Greece]: Rhodus. Lectotype: ♂: Marmaris (designated by Olivier, 1993) (in BMHN). Range (in code): Ae GR IL Pa Hf IQ IR Km Ab Lo JO LB Rd SY TR 01 02 03 07 09 10 12 13 15 17 20 21 23 27 30 31 32 33 35 42 44 45 46 47 48 51 56 62 63 65 70 72 73 80 01A 01E 01Aa 01G 01H 01K 12A 12Ab 12B 13C 13Cf 13D 13Da 13E 13Ea 13F 13G 13Gd 21K 21N 21Nb 21P 21O 23D 23Dc 23E 23I 23Ia 23Ib 23M 27C 27Cb 30A 30Ab 30D 30Df 30Dt 31M 33A 35T 35Td 36F 36Fb 44O 44Oi 44I 44L 44Lb 44O 44Oi 45L 45La 47L 47La 47F 47E 48A 48Aa 48Ab 48Aa 48Am 48Ac 48Ag 48Ai 48An 48Ao 48Aö 48Ap 48As 48Aö 48Au 48Aü 48Av 48D 56F 56Fc 56F 58G 58Gi 58Gk 65A 65Ai 65Au 65D 65Dc1 65Dk 65Dn 65Dl 65Dla 65Dq 65Dm 65Dt 65F1 65Fz 65K 65Ku 65N 65Np 65Nm 66F 72E 72Eb 72Ec 72F 73A 73Ad 73Db 73D 73Df 73H 80B 80Bc 80Bd 80C 80E 80G
 Common in the district, univoltine.

658. *Maniola (s.str.) jurtina* (Linnaeus, 1758) (Fig.97)

Synonym(s): *jurtina* Linnaeus, 1758; *janira* Linnaeus, 1758; *lemur* Schrank, 1801. Original Reference: *Papilio jurtina* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 475. Syntypes: Europa, Africa; [Sweden (Verity, 1953)]. Range (in code): Ae AL AM Ao AT AZ Ba BE BG B-H Bw BY Cc CH Co Cr CZ DE DK EE ES Fi FR GB GG GR HU HV IE IQ IR IT Kr LT LU LV MK MT NL NO PL PT RO RU Sa SE Si SK Sm So Sr SS TM TR UA VI YU Cw Dv Smt H-W Sur Ssx Ken PT Cn MA DZ TN ES MT F66 Sr Sm Or Bs Cb Tt So Ao KG Uk Mu Ab Ak Oru Msw Qba Gh Mz Elb Th Lo Kd Ha Gls Rbt Ndr Saia Agi Blid Ges Dje BSa Btta Dhm Tun Cst Phv Lbs Hrh Hmk Sbd Tgr Azr AF Hr 01 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 65 66 67 68 69 70 71 72 74 75 76 77 78 80 81 01E 01A 01K 05A 06B 06C 06D 06G 06H 06K 06R 06Z 13A 13Ab 13Ac 13Ax 13F 13G 13Gv 14I 14L 21O 23I 23Ia 23E 24E 24Fa 25F 25Fa 25Fc 29A 29Ac 39C 44L 46B 46Bb 46F 46G 46Gf 46Gg 46Gi 49E 49Fa 49Ef 58G 58Ga 58Gg 58Gi 58R 58B 62F 62G 62Gb 62Gb 65A 65Ai 65Au 65D 65Do 65E 65Eb 65F 65Fq 65Fg 65Fh 65Fj 65Fu 65Ft 65Fx 65Fz 65G 65Go 65Gq 65Gs 65F 65Fq 65Fz 65G 65Gb 65K 65Kz 65Kö 65Kü 65L 65Le 65N 65Ne 65Nm 66A 66P 66Pa 75F 75Fi 78D 78Da 80B 80Bc
 Common in the district, univoltine.

659. *Melanargia (Turcargia) hylata* (Ménétriés, 1832)

Synonym(s): *hylata* Ménétriés, 1832 Original Reference: *Satyrus hylata* Ménétriés, 1832, Catalogue raisonné des objectes de Zool. récueillis Caucase...:251. Type(s): [Aserbaïdjan]: Talyche: Khanat.

Range (in code): Cc AZ IR Ab Jal Ak Mrd Zj Elb Th Fa TR IQ 04 13 21 30 65 13A 13Ab 13Ac 13Ae 13Af 13Ag 14Ah 13Ax 13F 13G 13Gç 13Gv 13Gw 65A 65Ai 65B 65Bb 65Bc 65Bk 65Bo 65Bx 65D 65Dc 65Df 65Dg 65Do 65E 65Ea 65F 65Fe 65Fe 65Fg 65Fl 65Ft 65Fz 65G 65Gb 65K 65Kb 65Kc 65Ké 65Kl 65Kö 65Kü 65Kz 65Kg 65G 65Gf 65Gy 65Gm 65Gl 65K 65Kr 65L 65Le 65N 65Nj 65Np 65Np1 65Np2 65Np3 65Np4 65Nr3 65Nr2 65Nr6 65Ns 65Nm

Common in the district, univoltine.

660. *Melanargia (Turcargia) syriaca* (Oberthür, 1894) (Fig.98)

Synonym(s): *syriaca* Oberthür, 1894 Original Reference: *Arge galathea* var. *syriaca* Oberthür, 1894, Etüd. Ent. 19: 18-19, pl.8 figs.6,8. Syntypes: [Turquie]: Akbes (in BMHN). Range (in code): TR IR Ab Kd 01 12 13 21 23 24 25 30 31 46 49 62 65 73 80 12A 12Aa 12C 12E 12Eb 12Ea 13D 13A 13F 13G 13Ga 13Gv 24L 25D 30B 30Bo 31F 31Fb 31M 46G 46Gf 46Gi 46F 46Ff 46Fi 46L 49E 49Ea 49Ed 49Ef 49F 49Fd 62E 62F 62G 62H 65A 65Ac 65Ac 65Ac2 65Ai 65Au 65At 65At2 65Am 65Am1 65Am2 65Am3 65Am4 65D 65Do 65Dl 65Dk 65F 65Fa 65Fb 65Fc 65Fd 65Fe 65Fg 65Fm 65Fq 65Fs 65Fz 65G 65Gb 65K 65Kö 80A 80Bd

Common in the district, univoltine.

661. *Pararge aegeria* (Linnaeus, 1758)

Synonym(s): *aegeria* Linnaeus, 1758; *meone* Cramer, 1782; *egeria* Ochsenheimer, 1807; *sardoa* Verity, 1908. Original Reference: *Papilio aegeria* Linnaeus, 1758, Syst. Nat. (Edn.10) 1: 473. Syntypes: Europa, Mauritania. Range (in code): Ae AL AM AT AZ Ba BE BG BY Cc CH Co Cr CY CZ DE DK DZ EE ES Mu Mui8 FI FR GB GG GR HU IE IT LB LT LU LV MA MT NL NO PL PT RO RU Sa SE Si SK Sm Sr TN TR UA VI YU Sr Or Bs Tt Cw Dv Smt H-W Sur Ssz Ken SY IQ IR Ab Sbd Agi Tth Rbt Tlm Saia Orn Blid Ges Ktr Bsk Khh Btma Cst Phv 01 05 06 07 08 09 11 13 14 15 16 17 18 20 21 25 26 27 28 29 30 31 32 33 34 35 38 39 41 42 44 46 47 48 52 53 55 56 58 60 61 65 67 73 74 75 77 80 81 05A 06R 13C 13Cd 13F 13F7 13F71 21N 21Nb 27C 30C 30Cb 31K 31Ka 31M 33A 39C 44F 44Fb 44O 44Od 44Oi 44L 48D 48F 48L 56F 65A 65Ai 73D 73Dg 75F 75Fd 80C

Uncommon in the district, in shady places.

662. *Pseudochazara (s.str.) pelopea* (Klug, 1832) (Fig.99)

Synonym(s): *pelopea* Klug, 1832 Original Reference: *Hipparchia pelopea* Klug, 1832, [in] Ehrenberg, Symb. Phys. Ins. 3:pl.29, figs.5-8. Syntypes: "Monte Libano Syriae prope Arissam". Range (in code): IL Pa IQ TIH IR Ab Sro Ak Elb Th Ke Fa JO LB SY TM Kp Kh TR Cc 01 02 04 12 13 21 23 25 27 29 30 36 38 44 46 47 49 53 56 58 62 63 65 72 73 76 80 01K 13A 13Ab 13Ac 13Ax 13F 13G 13Ga 13Gv 13Gw 21K 23C 23Cc 23I 23Ia 23Ib 23M 30B 30Br 44L 44Lc 44O 44Oi 46D 46F 46Ff 49A 49Aa 49E 49Ea 49Ef 56F 65A 65Ac 65Ac2 65Ai 65Am 65Am3 65B 65Bk 65Bx 65D 65Dc 65Do 65E 65Eb 65F 65Fc 65Fd 65Fe 65Fg 65Fh 65Fj 65Fq 65Fx 65Fz 65G 65Ga 65Gb 65Gc 65Gd 65Ge 65Gf 65Gy 65Gn 65Go 65Gp 65K 65Kb 65Kc 65Ké 65Kl 65Km 65Kö 65Kü 65Kz 65Kg 65Kw 65N 65Np 65Np2 65Np3 65Np4 65Np5 65Np7 65Np8 65Nr2 65Nr3 65Nr6 65Nm 65Ns 72E 72Eg 72Ek 73A 73Ad 73Ad2 73C 76B 76Ba 76C 76D 76Da 80B 80Bc

Common in the district, univoltine.

663. *Satyrus (s.str.(s.str.)) favonius* Staudinger, [1892] (Map 17)

Synonym(s): *favonius* Staudinger, [1892] Original Reference: *Satyrus favonius* Staudinger, [1892], Dt. ent. Z., Iris 4: 239, pl.3 fig.1. Syntypes: [Türkei]: Malatia, Hadjin [=Saimbeyli], Eibes [=Akbes].

Range (in code): IR Ab Khy TS Lo Kd Sqq Bne TR Cc IQ 01 04 07 08 12 13 24 25 27 30 31 33 36 42 44 46 49 51 53 58 62 63 65 73 76 01K 07A 07Ak 12B 13G 13Gw 25F 25Fb 30B 30Br 30Bt1 31M 44L 46F 46Ff 46L 49F 49Fd 65A 65Am1 65Am3 65D 65Dc 65Dç1 65Dp 65G 65Gp 65F 65Fe 65Fj 65Fp 65Fz 65K 65Kl 65N 65Nr4 65Nm 76D 76Da

Uncommon in the district, univoltine.

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Figs. 2, 3 – *Carcharodus lavatherae*, sipping mineral water from the ground, Upper Mukus Valley 1840m 4 7 2016 (left), *Carcharodus alceae*, feeding on *Muscari* flower (Asparagaceae), Upper Mukus Valley 1840m 10 5 2016 (right), M. Kemal (Cesa)



Figs. 4, 5 – *Erynnis marloyi*, Upper Mukus Valley 1840m 24 6 2016 (left), *Erynnis tages*, Paşaköy 1600m, 9 5 2016 (right), both sipping mineral water from the ground, M. Kemal (Cesa)



Figs. 6, 7 – *Hesperia comma*, Upper Liman, Populetum 2320m 4 8 2016 (left), *Muschampia poggei*, Upper Mukus Valley 1840m 4 7 2016 (right), both sipping mineral water from the ground, M. Kemal (Cesa)



Figs. 8, 9 – *Pyrgus melotis* ssp. *ponticus* in sleep, Bahçesaray, Kasr (65Ao), 10 5 2016 (left), *Pyrgus sidae* at rest on Asteraceae flower, Kirmızıköprü 2km SW 1540m, 12 6 2016 (right), M. Kemal (Cesa)

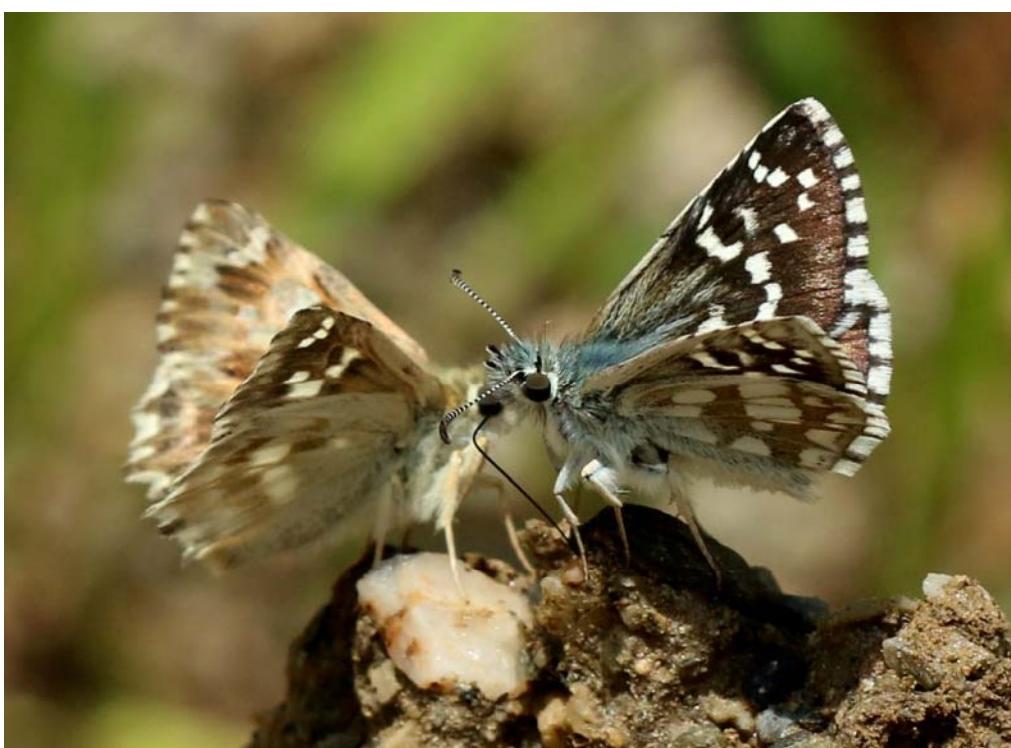


Fig. 10 – *Carcharodus lavatherae* and *Pyrgus serratulae* head-to-head. Bahçesaray, Altindere 1980m (65At1), on 26 6 2016, M. Kemal (Cesa)



Figs. 11, 12 – *Ochlodes venatus*, at rest, Bahçesaray Paşaköy 1600m (65Ai), on 10 6 2016 (left); *Thymelicus sylvestris*, a sipping male, Upper Mukus valley 1840m, on 24 6 2016 (right), M. Kemal (Cesa)



Figs. 13, 14 – *Archon apollinaris*. Full-grown caterpillar on *Aristolochia bottae* (Aristolochiaceae) (left), and another specimen at the beginning of prepupal stage (right). Both from Upper Mukus valley 1840m, on 11 6 2016, M. Kemal (Cesa)



Figs. 15, 16 – *Papilio machaon*, Bahçesaray, Meteorology Station 2570m (65Aç) on 23 6 2016 (left), Upper Mukus valley 1840m (65Am4), on 24 6 2016 (right), M. Kemal (Cesa)



Figs. 17, 18 – *Parnassius mnemosyne*, Bahçesaray, Bağcılar (65As) 2040m, 4 6 2016 (left); *Zerynthia deyrollei*, a resting male, Upper Mukus valley 1840m (65Am4), on 10 5 2016 (right), M. Kemal (Cesa)



Figs. 19, 20 – *Zerynthia deyrollei*: A resting male (left); a basking female (right), both from Upper Mukus valley 1840m (65Am4), on 10 5 2016 , and 24 5 2016 respectively, M. Kemal (Cesa)



Fig. 21 – *Aporia crataegi*, courtship, female (left), male in flight (right). Bahçesaray, İmamlı 2610m, on 25 6 2016, M. Kemal (Cesa)



Figs. 22, 23 – *Aporia crataegi* from Paşaköy 1600m on 2 6 2016 (left); *Colias crocea*, a male sipping mineral water from Liman 2320m, on 5 8 2016, M. Kemal (Cesa)



Figs. 24, 25 – *Leptidea duponcheli*, Altindere 1980m (65At1), on 11 6 2016 (left); *Leptidea sinapis*, Paşaköy 1600m (65Ai), on 12 6 2016 (right), both specimens belong to the first generation of each species, M. Kemal (Cesa)



Figs. 26, 27 – A feeding group of *Pieris ergane* and *Pieris krueperi* from Upper Mukus valley 1840m on 25 6 2016 [they belong to their first generations] (left); *Pieris krueperi*, sipping mineral water from the ground, Upper Mukus valley 1840m, on 24 6 2016 (right), M. Kemal (Cesa)



Figs. 28, 29 – *Celastrina argiolus*, a female at rest, İhtiyartaşı 2270m (65Ap) on 3 6 2016 (left); *Glaucopsyche lessei* from Paşaköy 1620m (65Ai), on 11 6 2016 (right), M. Kemal (Cesa)



Figs. 30, 31 – *Glauopsyche alexis*, a male at rest, Upper Mukus valley 1840m, on 10 5 2016 (left); *Lampides boeticus* a male feeding on flower of *Centaurea* ? (Asteraceae) Paşaköy 1600m, on 5 8 2016 (right), M. Kemal (Cesa)



Figs. 32, 33 – *Lycaena alciphron*, a male at rest, Paşaköy 1600m, on 12 6 2016 (left); *Lycaena asabinus*, a male feeding on a flower of *Myosotis* ? (Boraginaceae), Upper Mukus valley 1840m (65Am4), on 2 6 2016 (right), M. Kemal (Cesa)



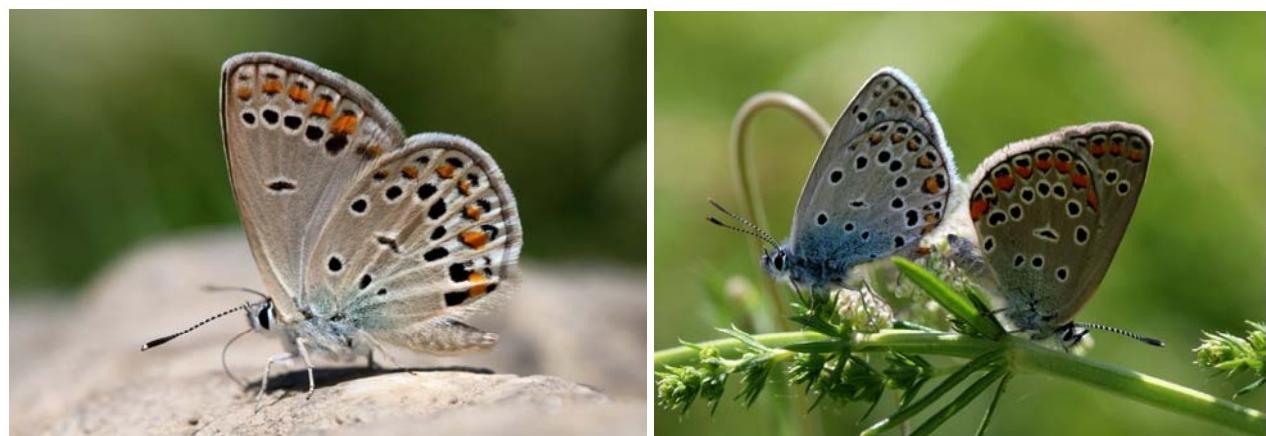
Figs. 34, 35 – *Lycaena kurdistanica*, a male at rest, Upper Mukus valley 1840m, on 2 6 2016 (left); *Lycaena thetis*, a male, Liman 2320m, on 10 8 2016 (right), M. Kemal (Cesa)



Figs. 36, 37 – *Lycaena phlaeas*, a feeding butterfly on a flower (*Asteraceae*), Upper Mukus valley 1840m (65Am4), on 10 5 2016 (left); *Lycaena virgaureae* a male at rest on flower, Altindere 1980m (65At1), on 26 6 2016 (right), M. Kemal (Cesa)



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Figs. 42, 43 – *Plebejus argus*, a dominant species in the feeding community, Upper Mukus valley 1780m (65Am1), on 16 7 2017 (left); *Polyommatus loewii*, a sipping male, Upper Mukus valley 1840m (65Am4), on 4 7 2016 (right), M. Kemal (Cesa)



Figs. 44, 45 – *Polyommatus eumedon*, from the type locality of the very local, alpine subsp. *namus* Koçak & Kemal, 2002, sitting on *Nepeta* flowers (Lamiaceae), Krapet (or Karabel) Pass 3000m, on 16 7 2017, M. Kemal (Cesa)



Figs. 46, 47 – *Polyommatus crassipunctus* subsp. *mehmetcik* Koçak & Kemal, 2002, described from Krapet Pass, together with the subsp. *namus* of *P. eumedon*. However, subsp. *mehmetcik* more widely distributed in South East Turkey. A male in the figure above is sipping from the ground at Krapet Pass 3000m on 15 7 2017 (left); *Polyommatus bellis*, a male sipping, Altindere 1980m, on 4 7 2016 (right), M. Kemal (Cesa)



Figs. 48, 49 – *Polyommatus antiochenus*, both males, sipping from the ground from Paşaköy 1600m on 26 2016 (left), and 25 5 2016 (right), respectively, M. Kemal (Cesa)



Figs. 50, 51 – *Polyommatus bellargus*, both males from Kasr 1615m (65Ao), on 10 5 2016 (first generation) (left), from Paşaköy 1600m (65Ai), on 5 8 2016 (second generation) (right), M. Kemal (Cesa)



Figs. 52, 53 – *Polyommatus daphnis*, a resting male from Upper Mukus valley 1780m (65Am1), on 16 7 2017 (left); *Polyommatus amandus*, a sipping male from Paşaköy 1600m (65Ai), on 10 6 2016 (right), M. Kemal (Cesa)



Figs. 54, 55 – *Polyommatus fatima*, both males from Upper Mukus valley on 15 7 2016 (left), on 16 7 2017 (right), M. Kemal (Cesa)



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Figs. 62, 63 – *Satyrium abdominalis* a male from Paşaköy 1600m, on 12 6 2016 (left); *Satyrium armenum*, a female from Lower Mukus valley 1540m (65Au), on 6 6 2016 (right), M. Kemal (Cesa)



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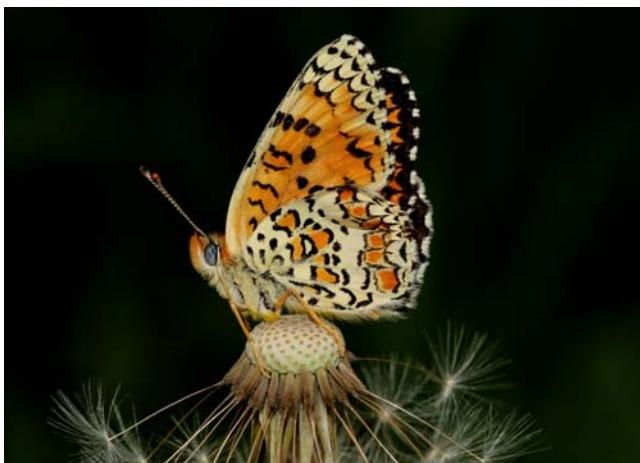
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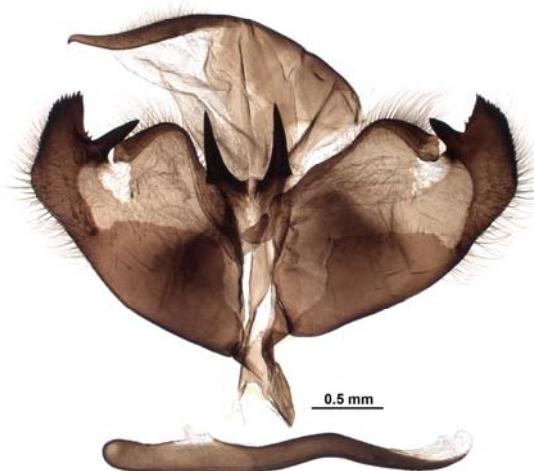
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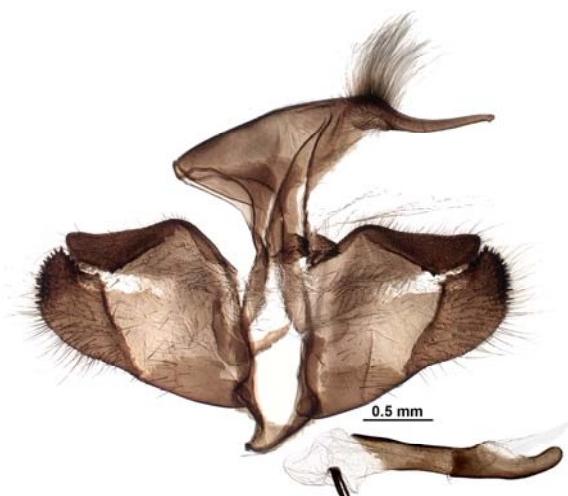
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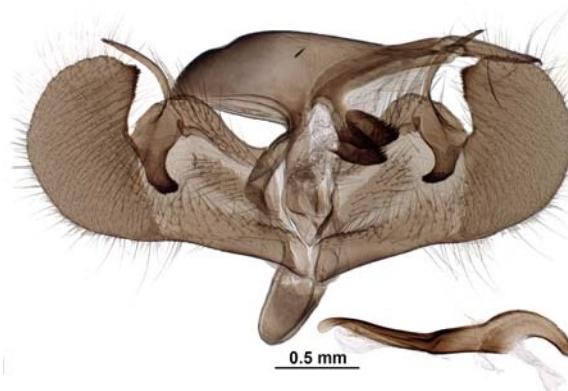
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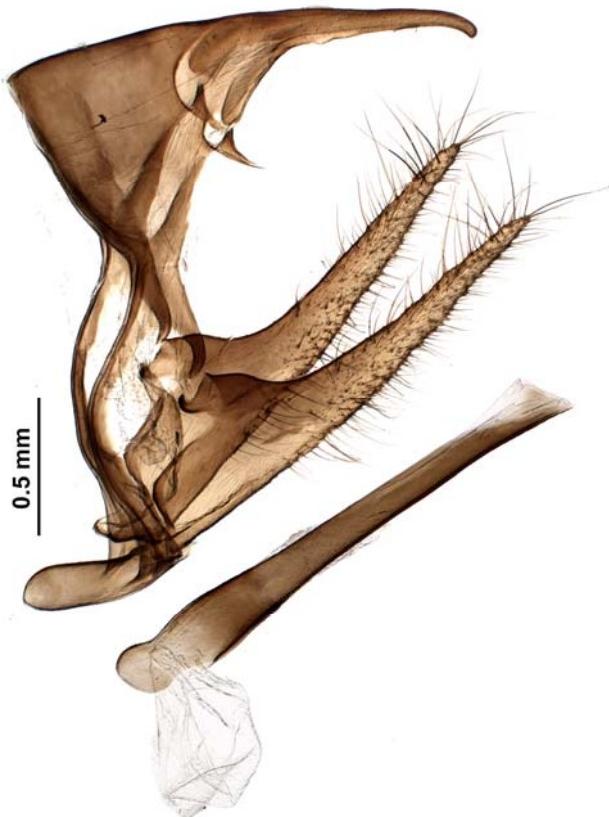
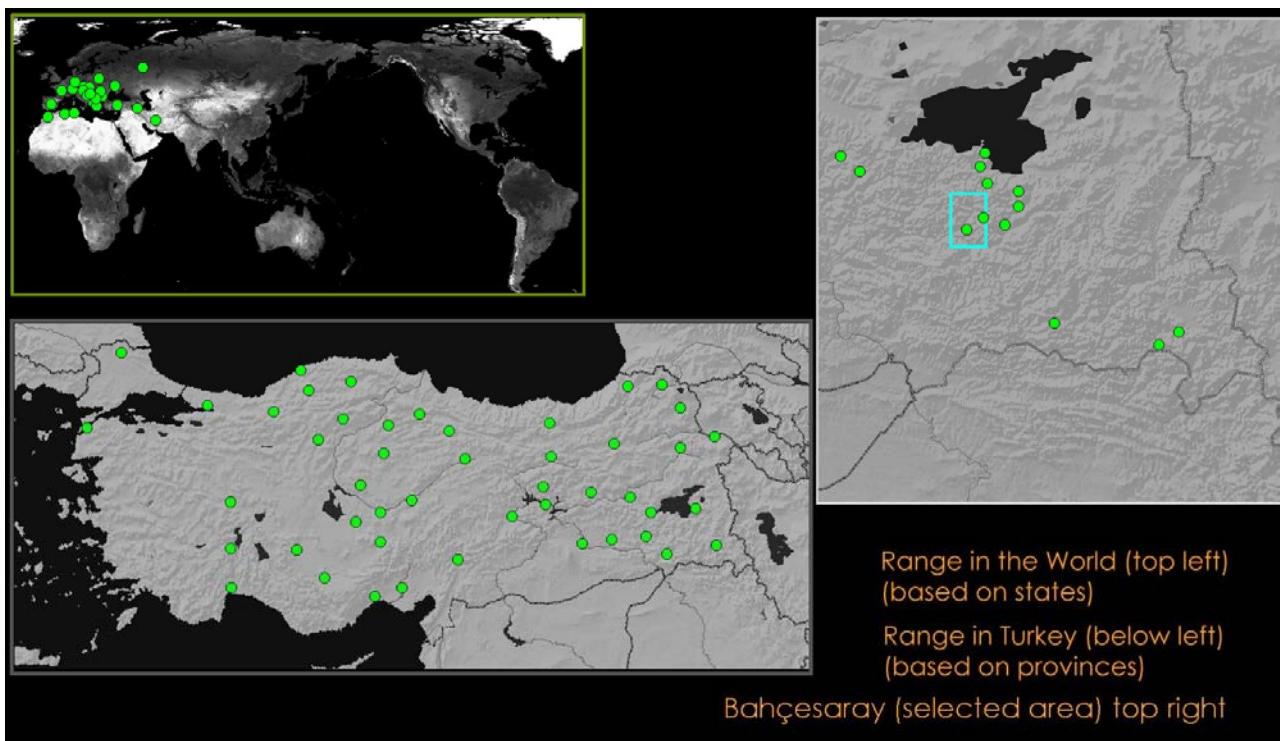
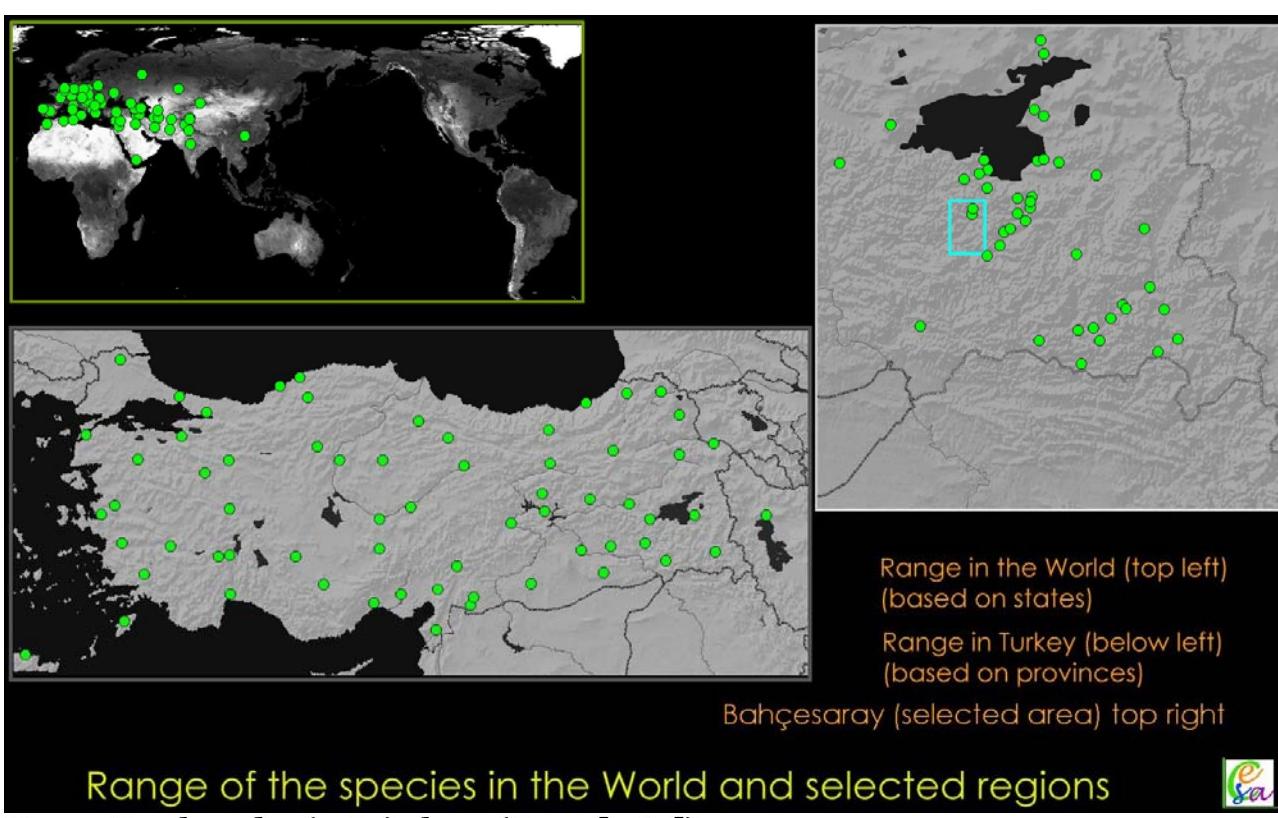
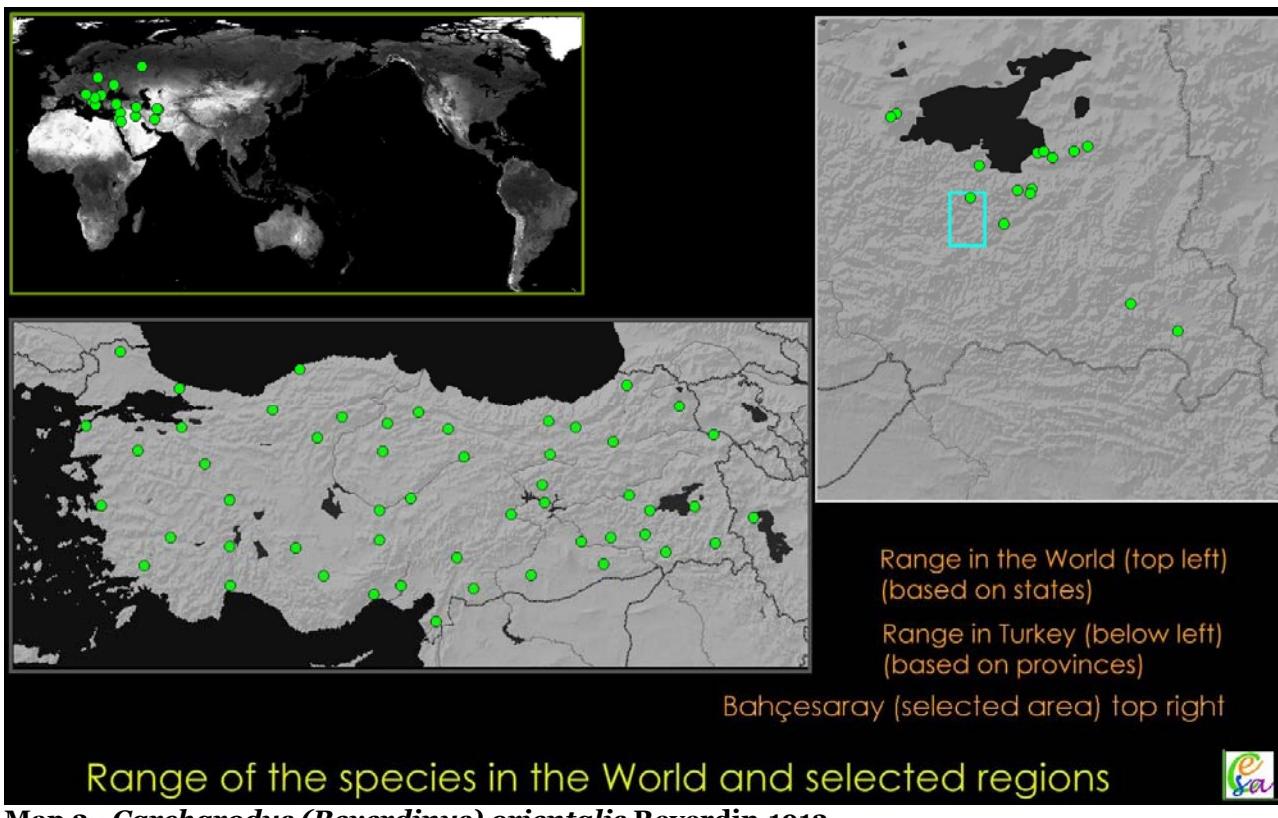


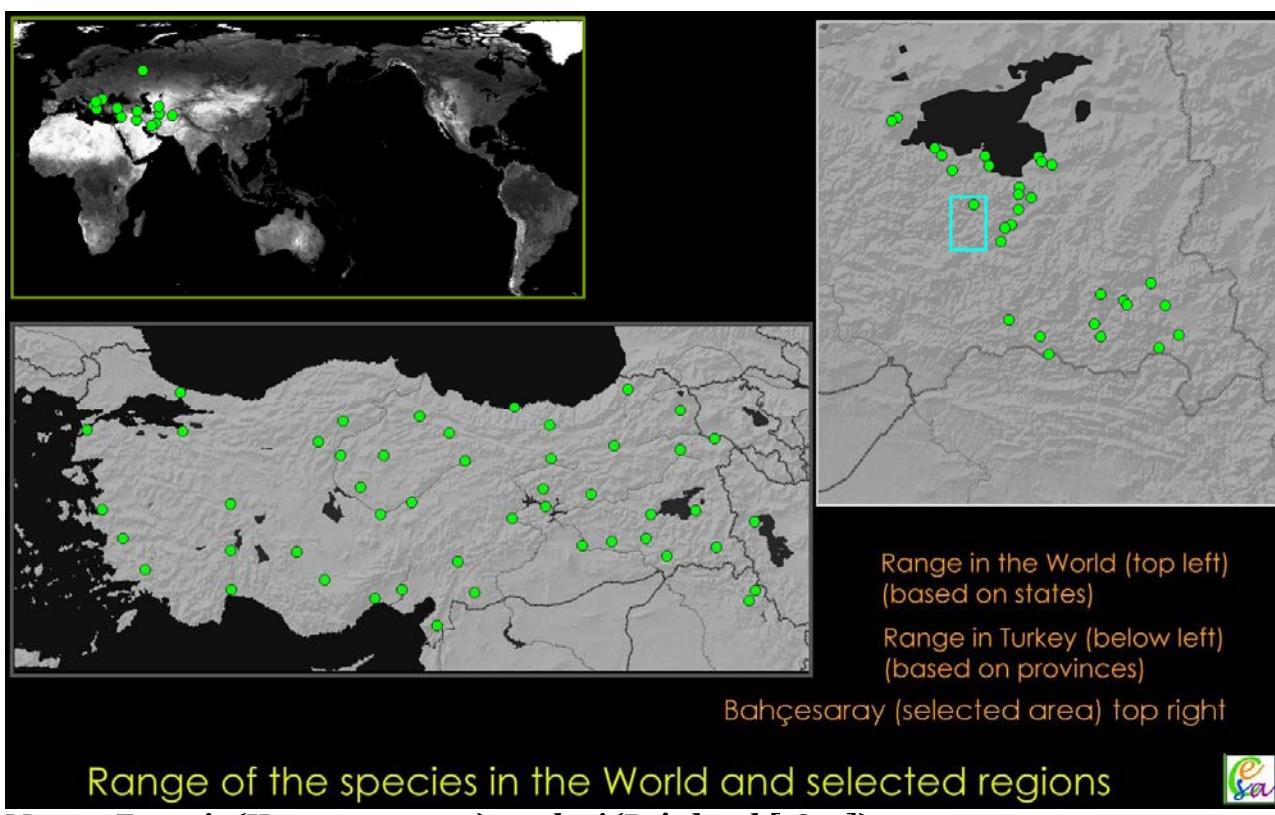
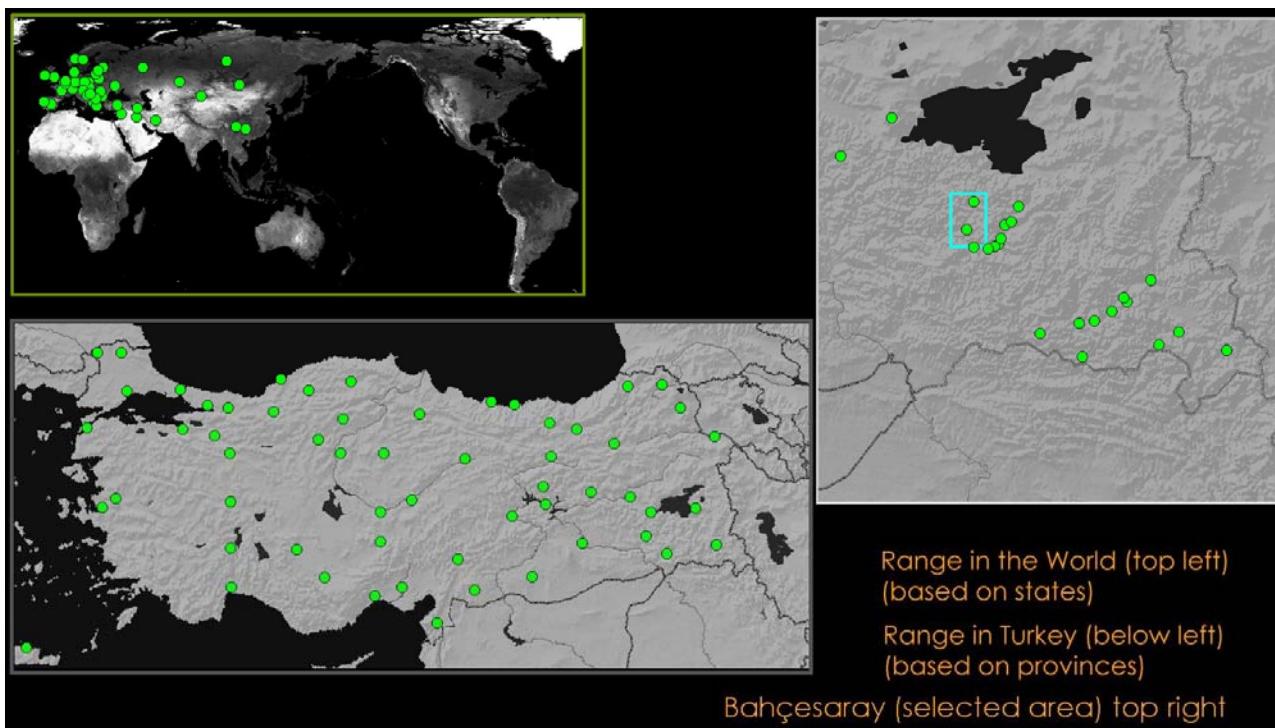
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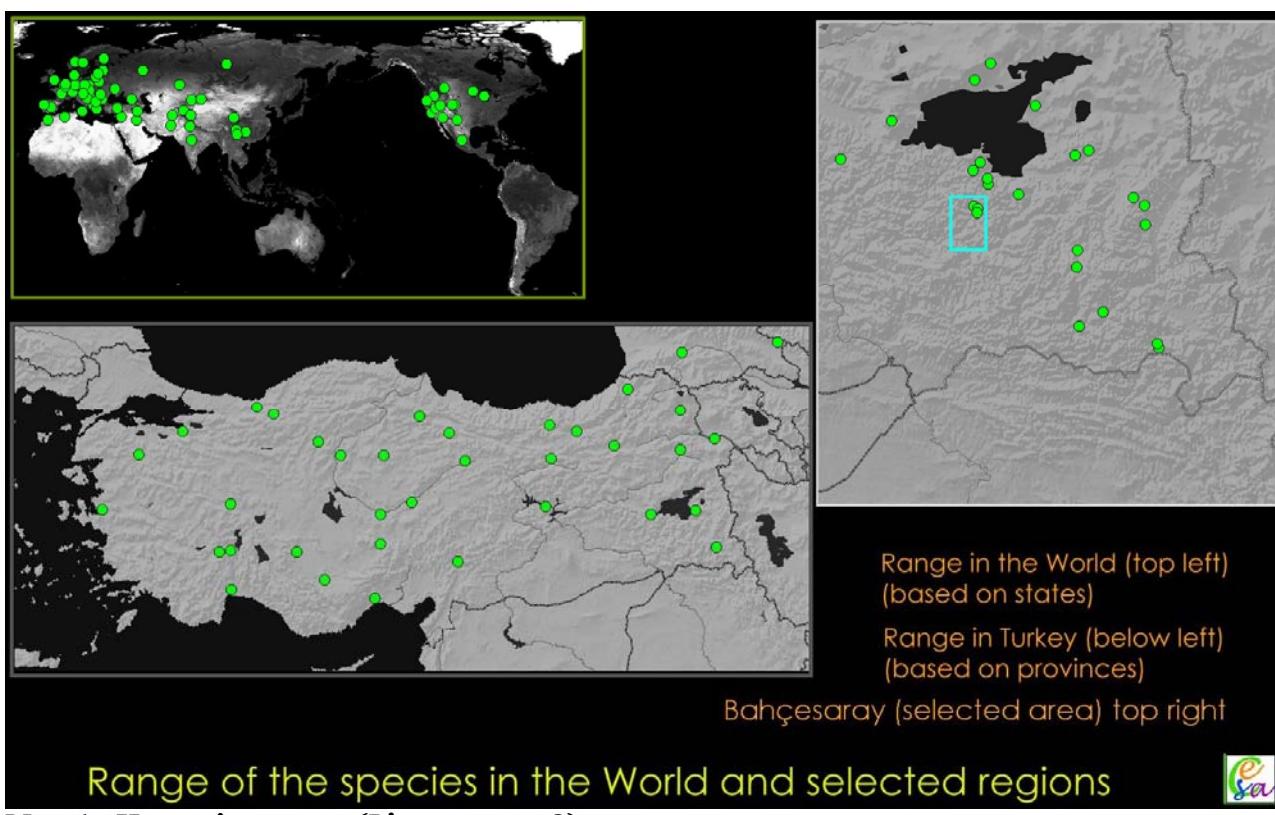
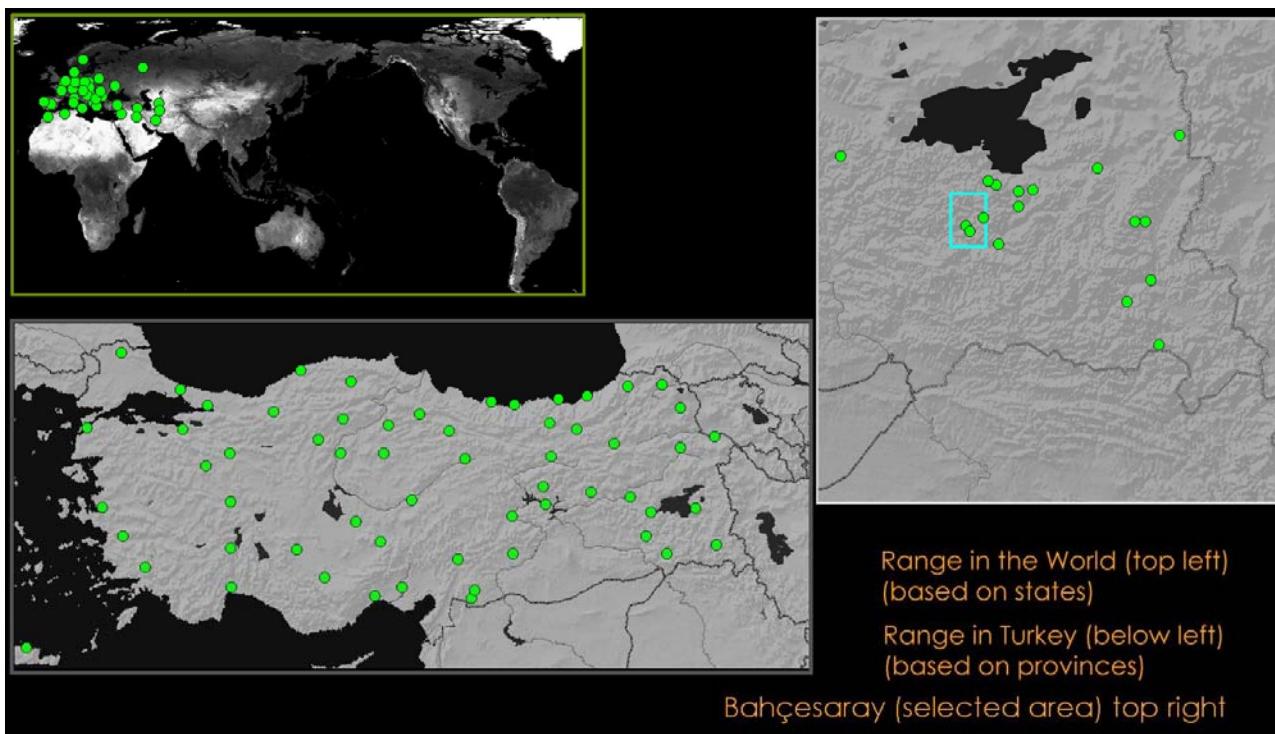


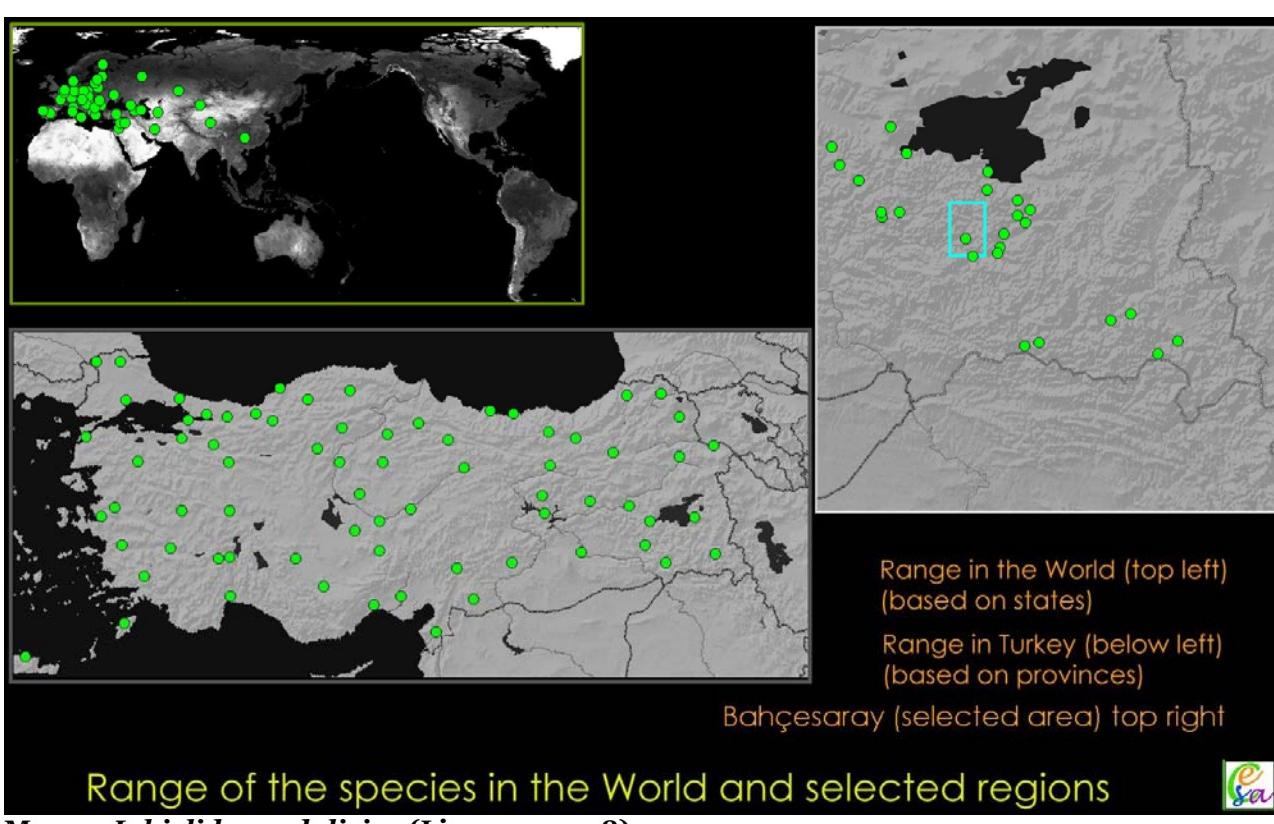
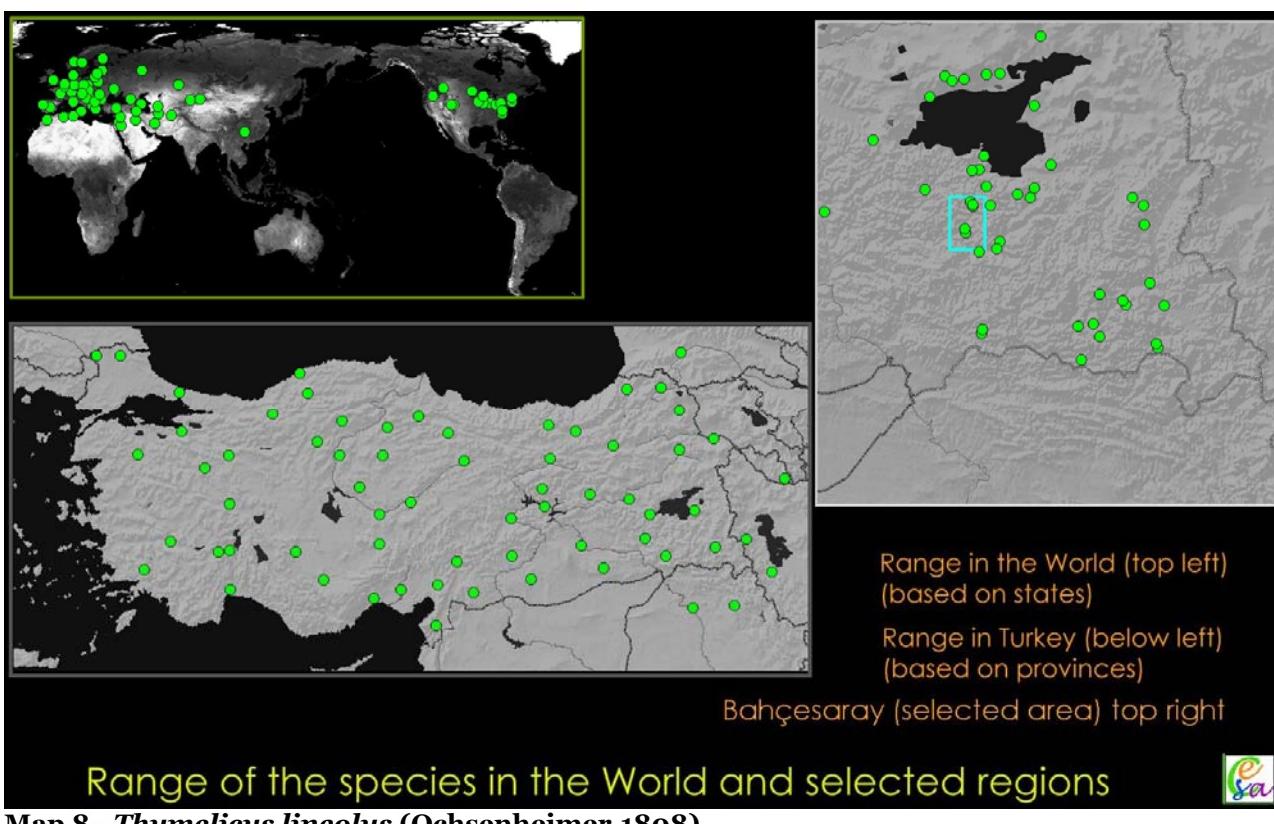
Range of the species in the World and selected regions
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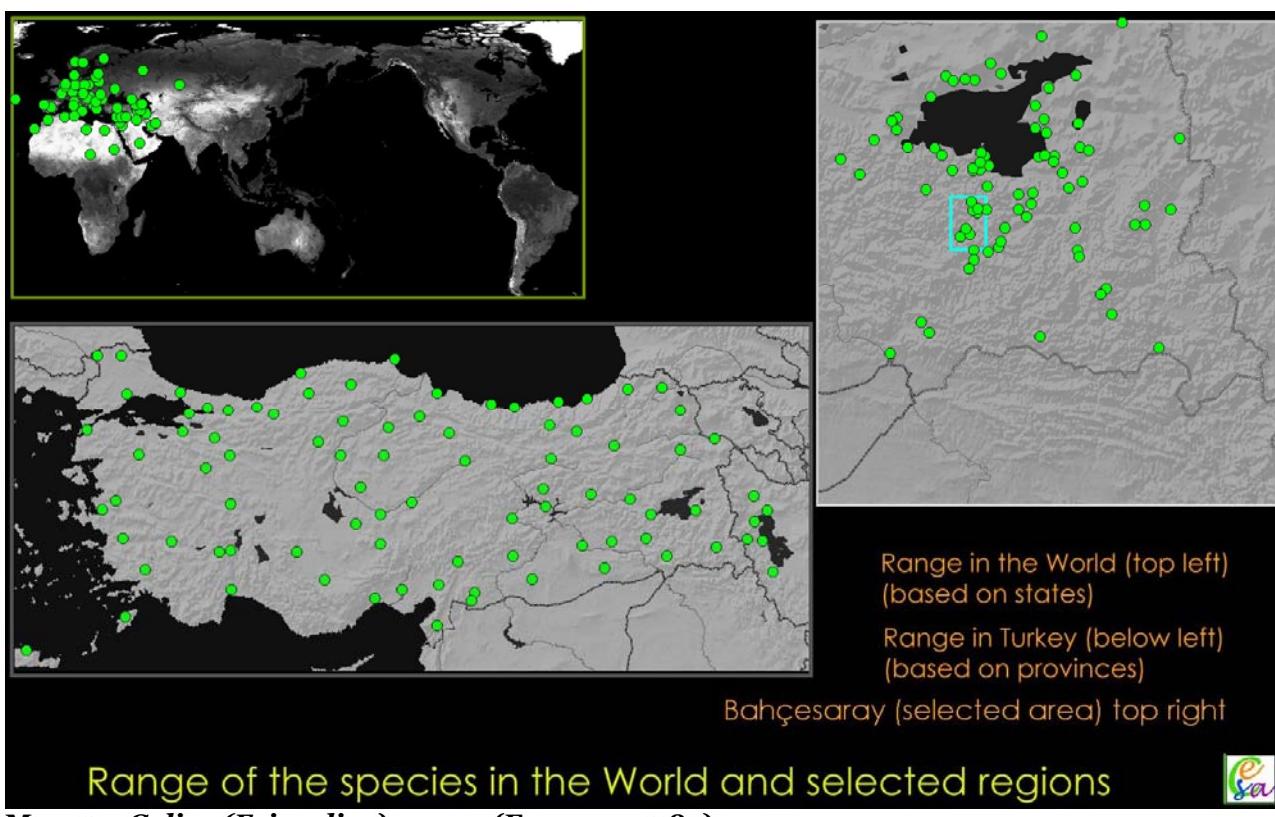
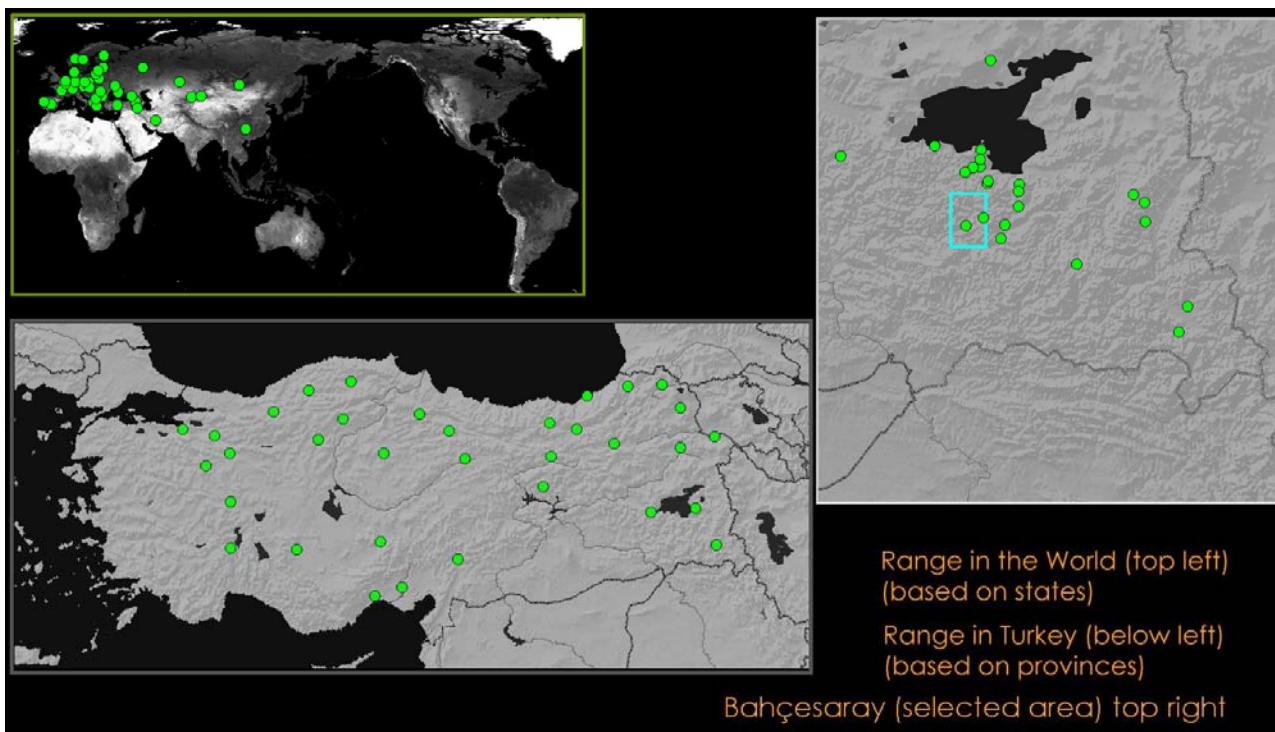


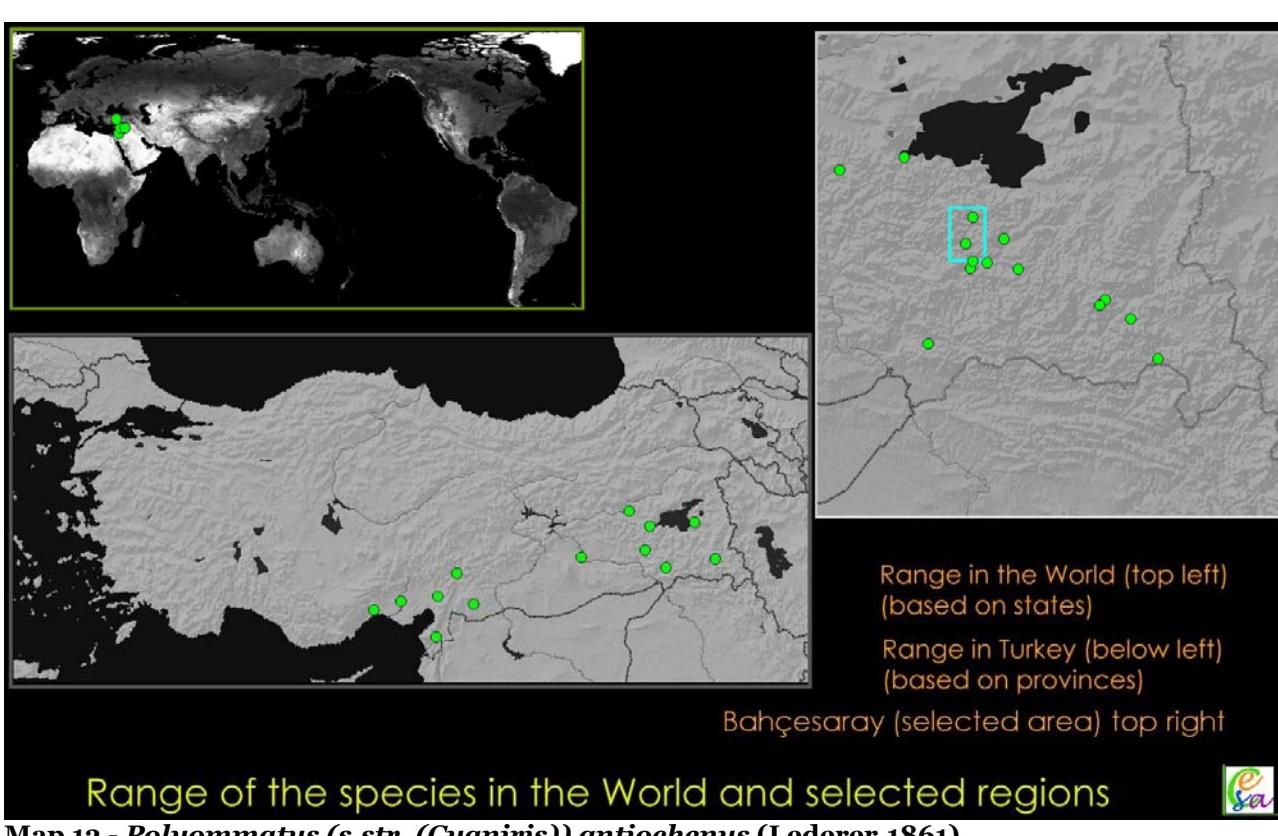
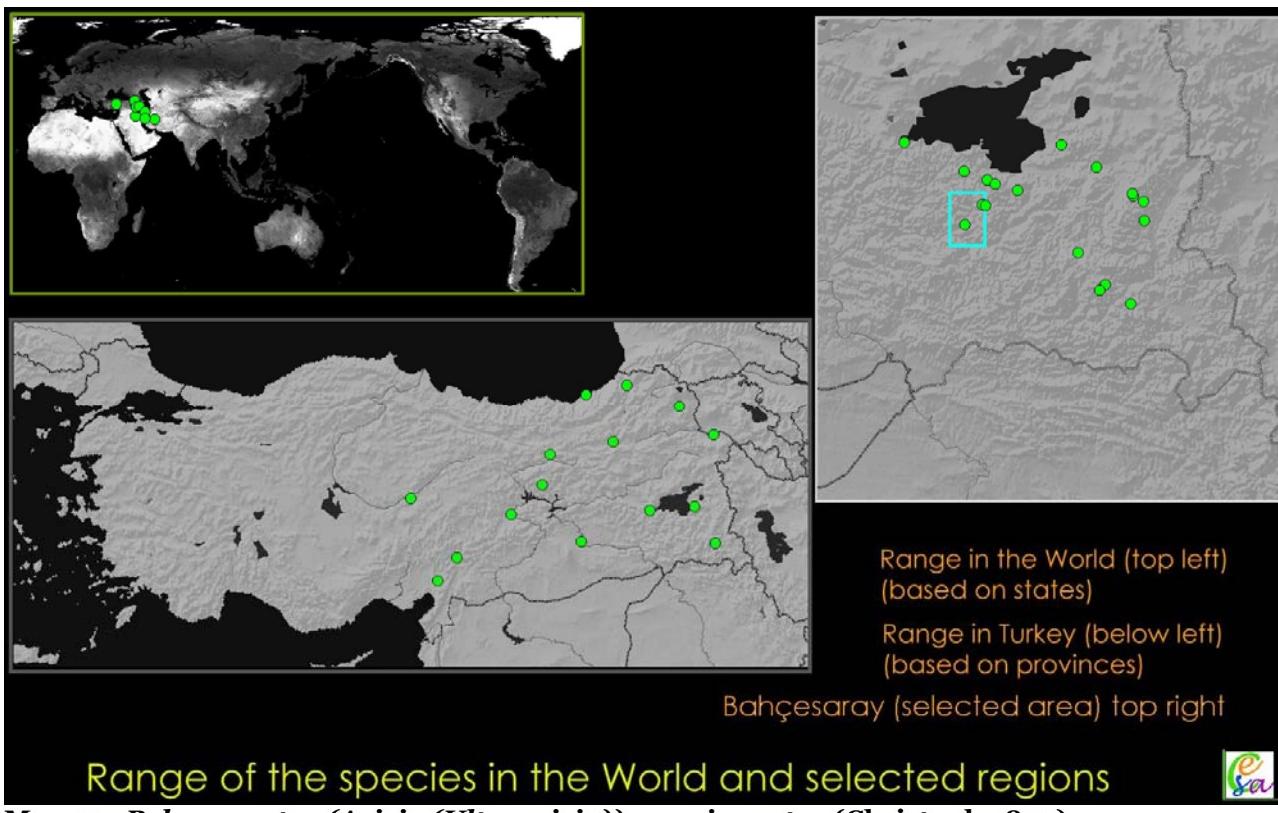


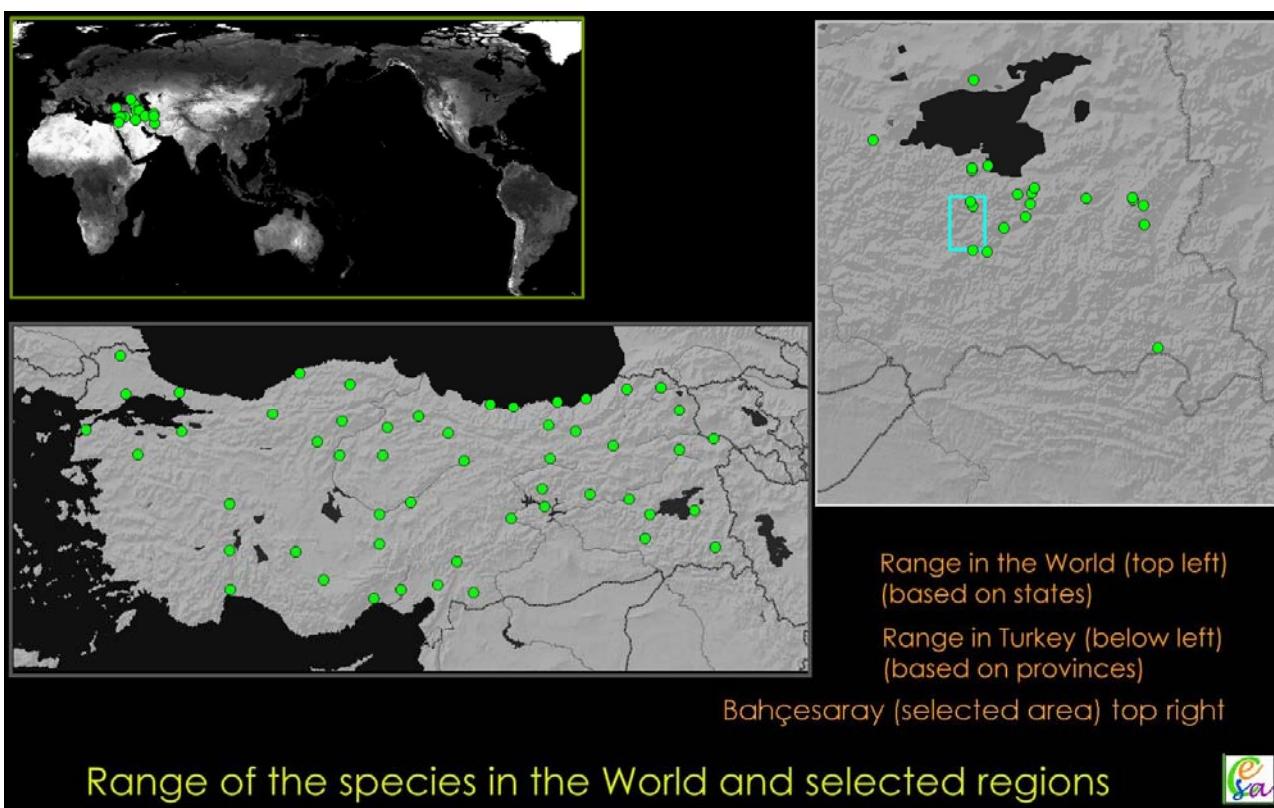
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Map 6 - *Hesperia comma* (Linnaeus, 1758)Map 7 - *Pyrgus armoricanus* (Oberthür, 1910)



Map 10 - *Colias (Eriocolias) crocea* (Fourcroy, 1785)Map 11 - *Lycaena (Heodes) virgaureae* (Linnaeus, 1758)

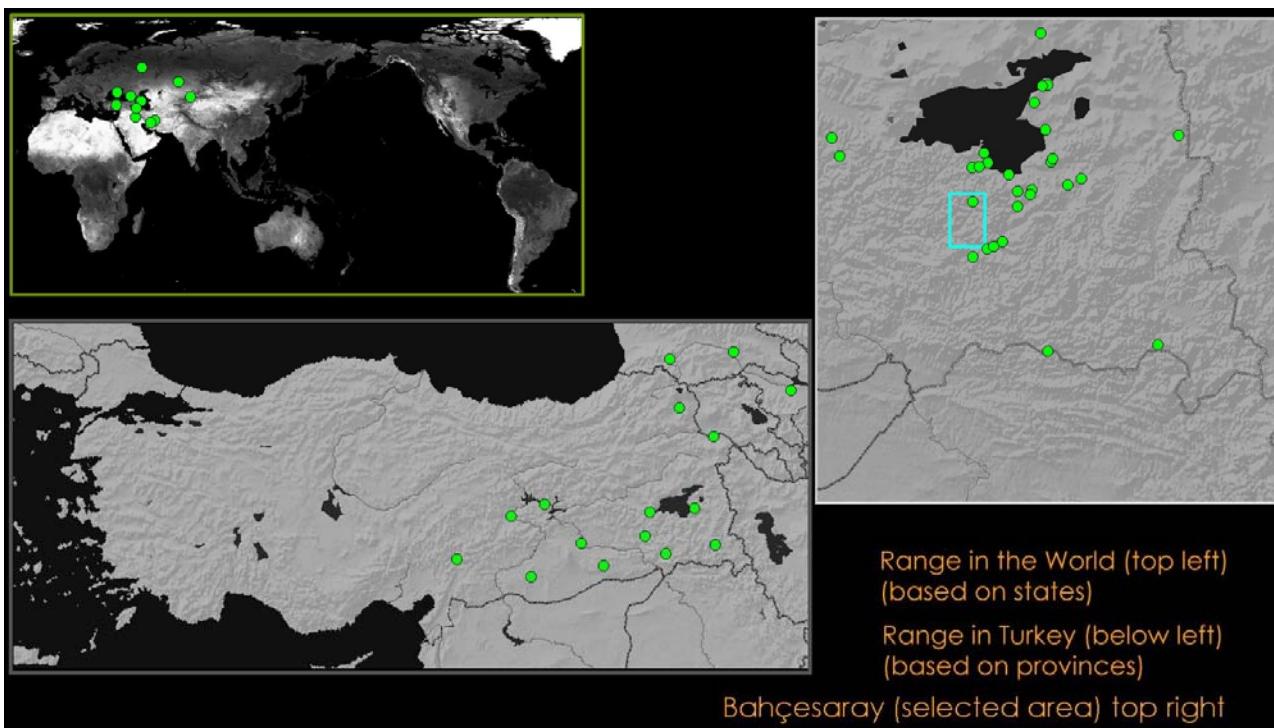




Range of the species in the World and selected regions



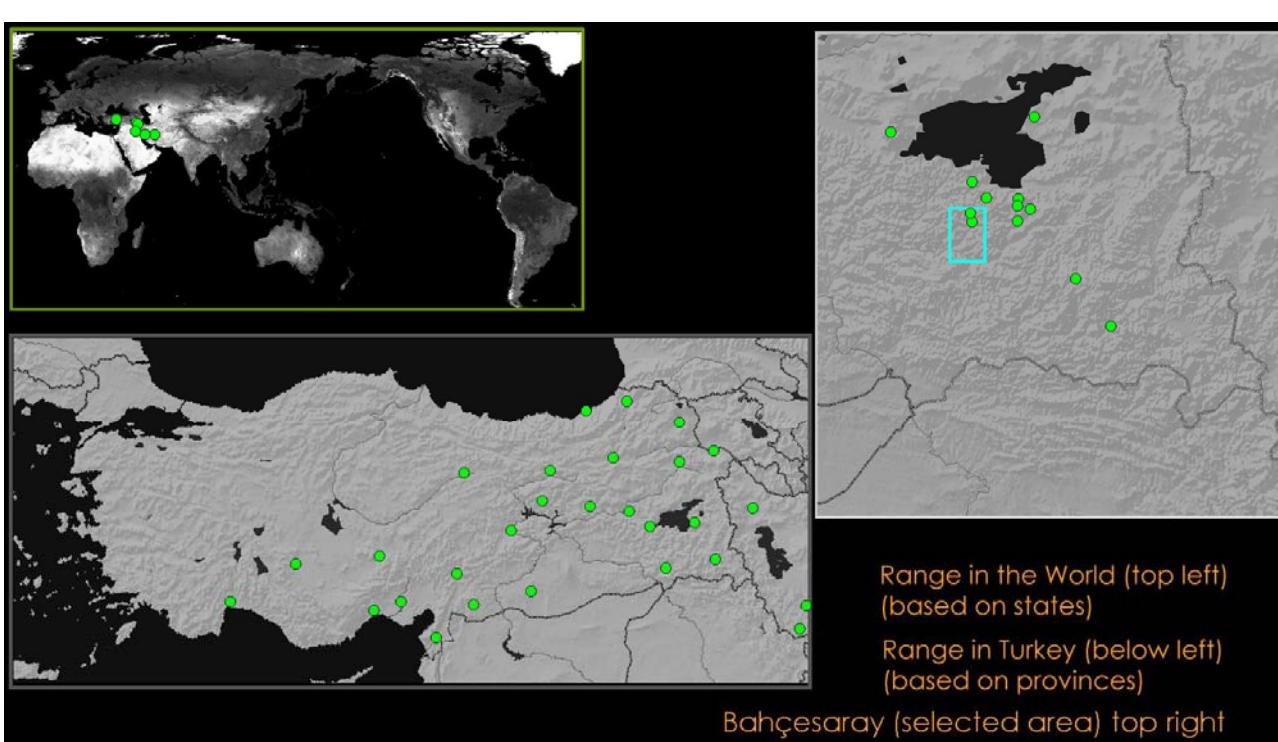
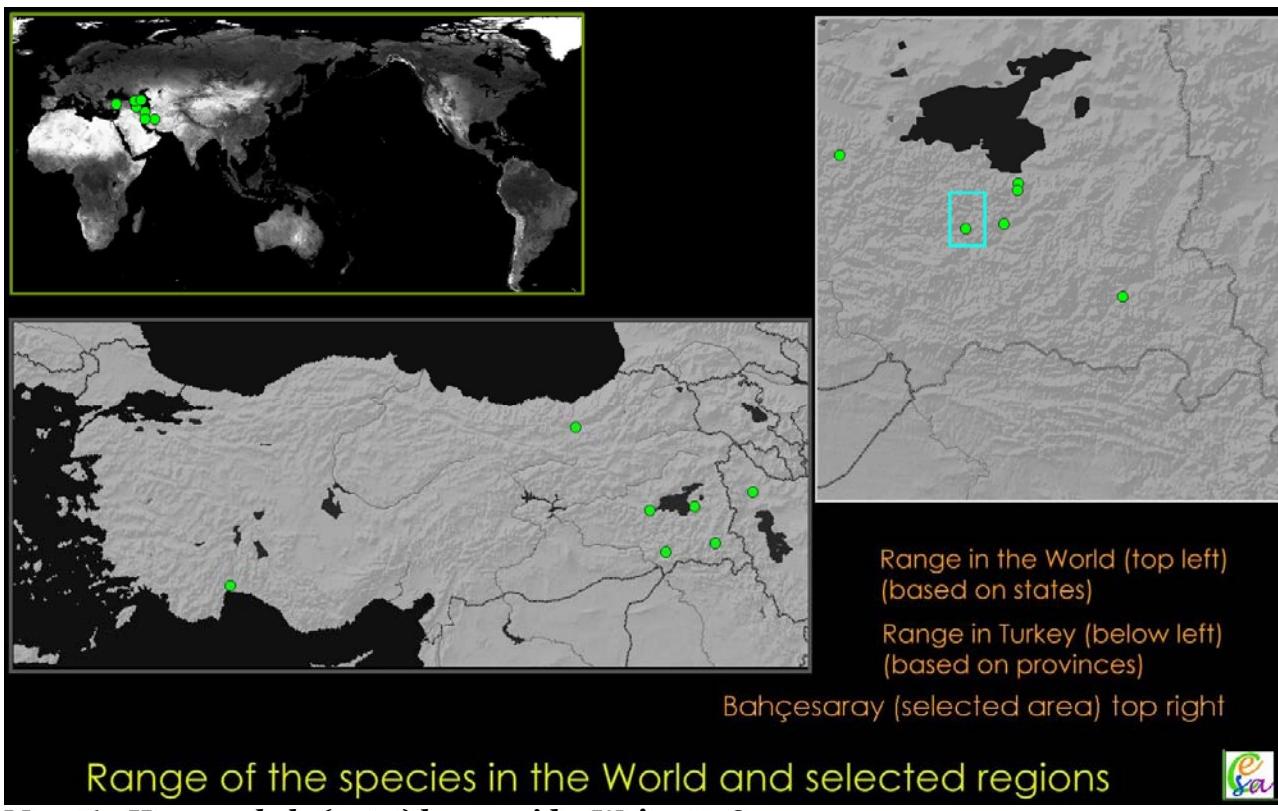
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Range of the species in the World and selected regions



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